FIG. 1

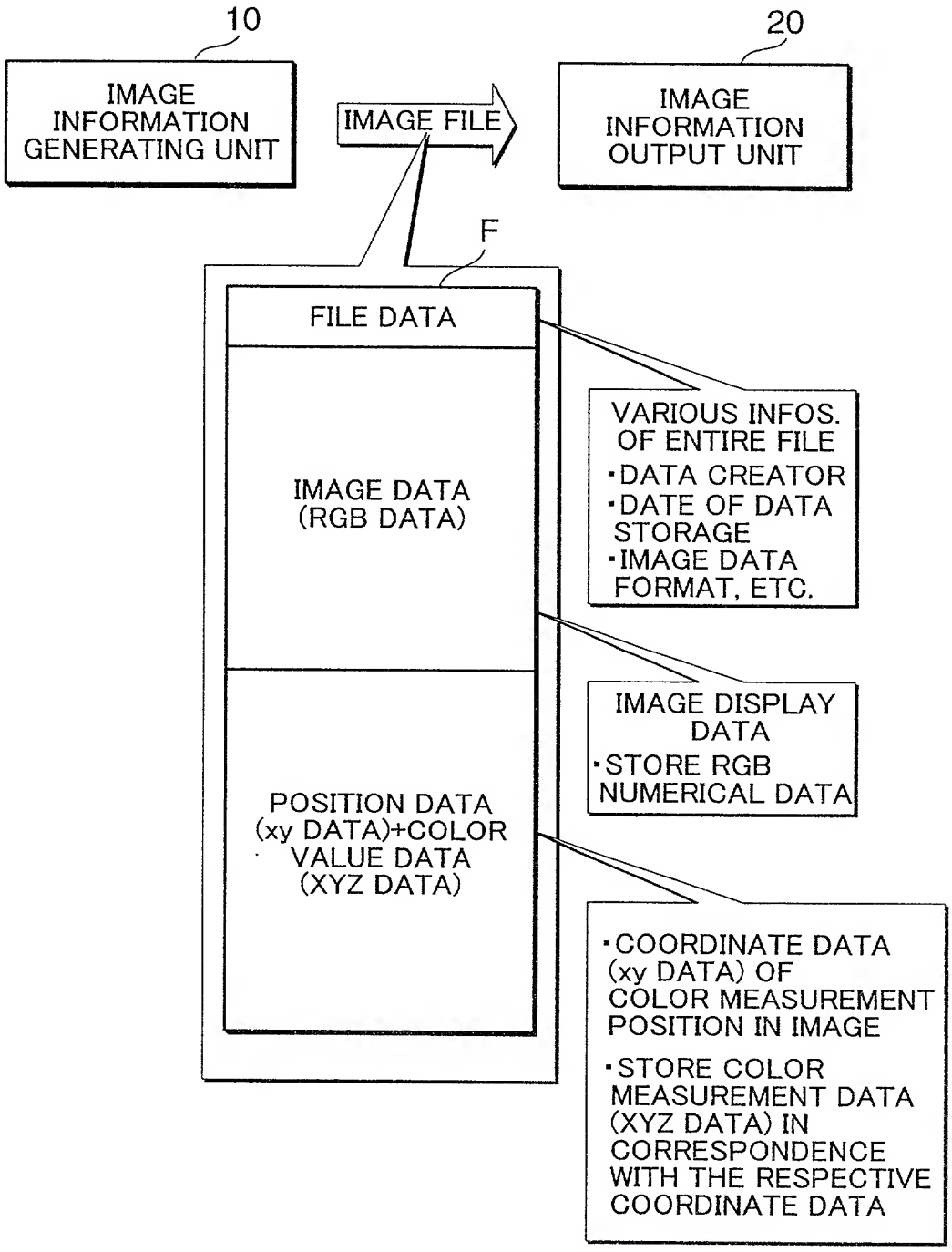

10
IMAGE INFORMATION GENERATING UNIT
IMAGE FILE
20
IMAGE INFORMATION OUTPUT UNIT
F
FILE DATA
IMAGE DATA (RGB DATA)
POSITION DATA (xy DATA)+COLOR VALUE DATA (XYZ DATA)
VARIOUS INFOS. OF ENTIRE FILE
·DATA CREATOR
·DATE OF DATA STORAGE
·IMAGE DATA FORMAT, ETC.
IMAGE DISPLAY DATA
·STORE RGB NUMERICAL DATA
·COORDINATE DATA (xy DATA) OF COLOR MEASUREMENT POSITION IN IMAGE
·STORE COLOR MEASUREMENT DATA (XYZ DATA) IN CORRESPONDENCE WITH THE RESPECTIVE COORDINATE DATA

FIG. 2

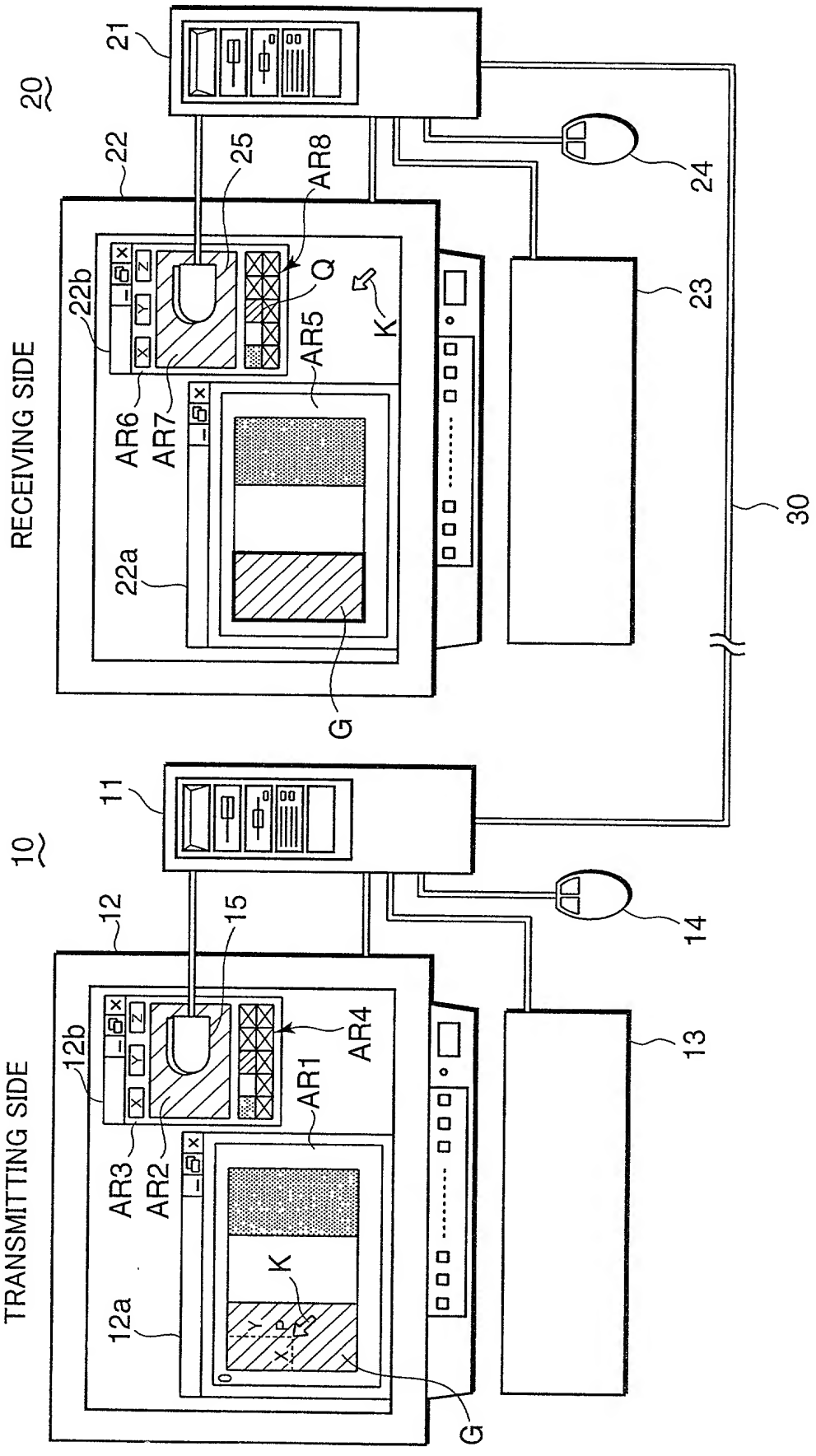

20
21
22
25
AR8
24
22b
Q
K
AR5
23
RECEIVING SIDE
AR6
AR7
22a
G
30
10
11
12
15
14
12b
AR4
AR1
13
TRANSMITTING SIDE
AR3
AR2
12a
K
G

FIG. 3

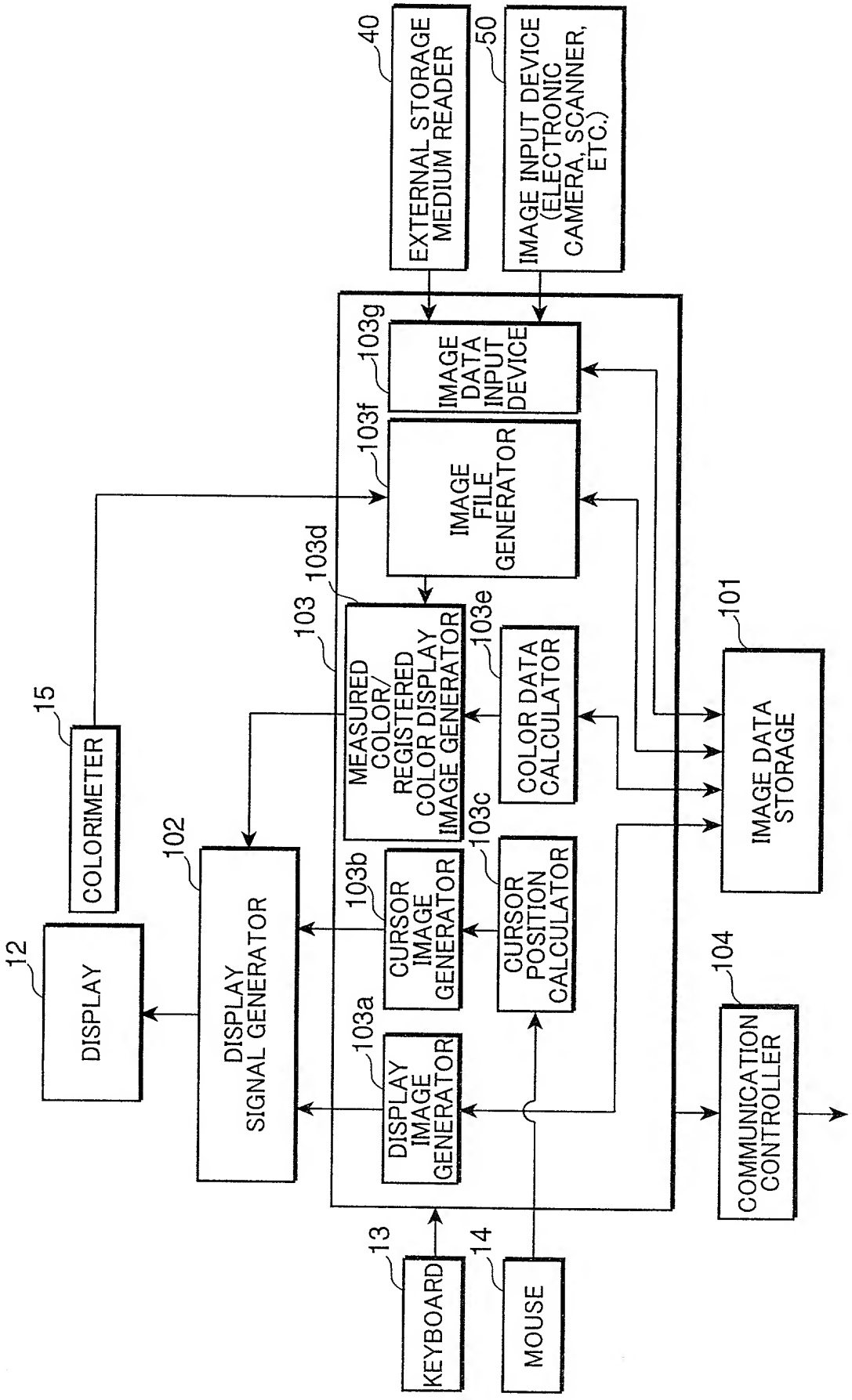

40
EXTERNAL STORAGE MEDIUM READER
50
IMAGE INPUT DEVICE (ELECTRONIC CAMERA, SCANNER, ETC.)
103g
IMAGE DATA INPUT DEVICE
103f
IMAGE FILE GENERATOR
103d
103
MEASURED COLOR/ REGISTERED COLOR DISPLAY IMAGE GENERATOR
103e
COLOR DATA CALCULATOR
101
IMAGE DATA STORAGE
15
COLORIMETER
102
DISPLAY SIGNAL GENERATOR
103b
CURSOR IMAGE GENERATOR
103c
CURSOR POSITION CALCULATOR
12
DISPLAY
103a
DISPLAY IMAGE GENERATOR
104
COMMUNICATION CONTROLLER
13
KEYBOARD
14
MOUSE

FIG. 4

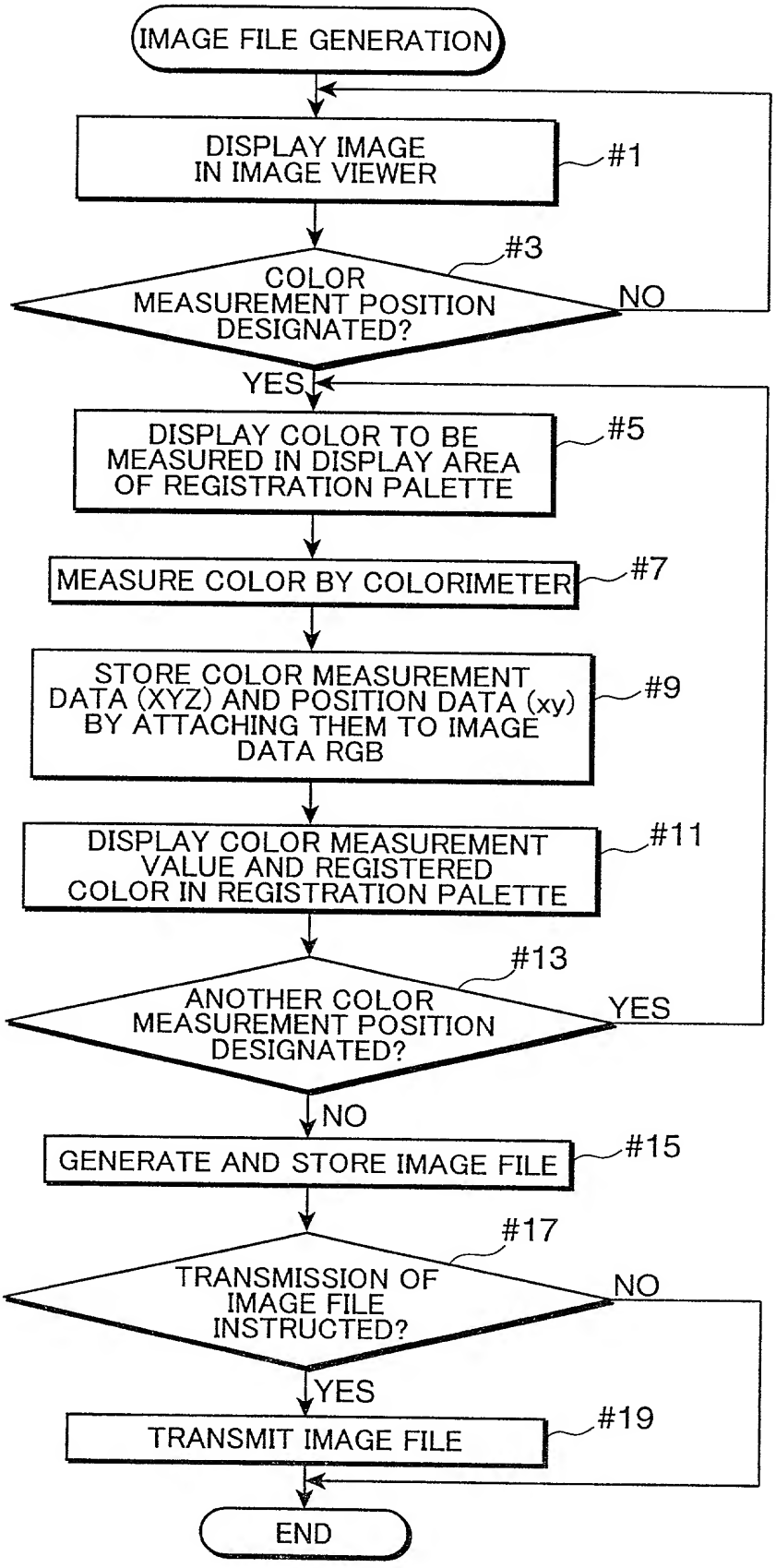


IMAGE FILE GENERATION
DISPLAY IMAGE IN IMAGE VIEWER
#1
COLOR MEASUREMENT POSITION DESIGNATED?
#3
NO
YES
DISPLAY COLOR TO BE MEASURED IN DISPLAY AREA OF REGISTRATION PALETTE
#5
MEASURE COLOR BY COLORIMETER
#7
STORE COLOR MEASUREMENT DATA (XYZ) AND POSITION DATA (xy) BY ATTACHING THEM TO IMAGE DATA RGB
#9
DISPLAY COLOR MEASUREMENT VALUE AND REGISTERED COLOR IN REGISTRATION PALETTE
#11
ANOTHER COLOR MEASUREMENT POSITION DESIGNATED?
#13
YES
NO
GENERATE AND STORE IMAGE FILE
#15
TRANSMISSION OF IMAGE FILE INSTRUCTED?
#17
NO
YES
TRANSMIT IMAGE FILE
#19
END

FIG. 5

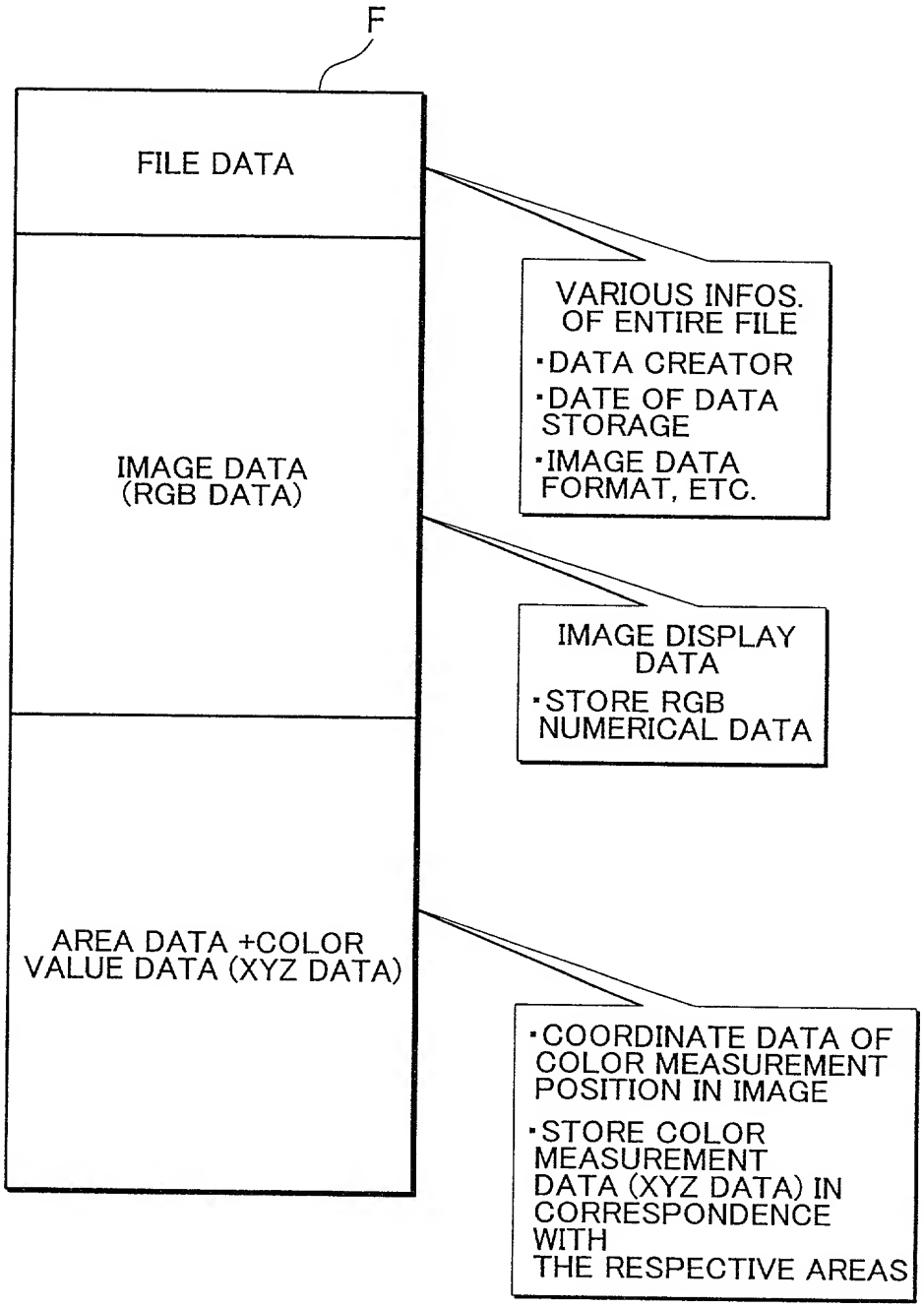

F
FILE DATA
IMAGE DATA (RGB DATA)
AREA DATA +COLOR VALUE DATA (XYZ DATA)
VARIOUS INFOS. OF ENTIRE FILE
·DATA CREATOR
·DATE OF DATA STORAGE
·IMAGE DATA FORMAT, ETC.
IMAGE DISPLAY DATA
·STORE RGB NUMERICAL DATA
·COORDINATE DATA OF COLOR MEASUREMENT POSITION IN IMAGE
·STORE COLOR MEASUREMENT DATA (XYZ DATA) IN CORRESPONDENCE WITH THE RESPECTIVE AREAS

FIG. 6

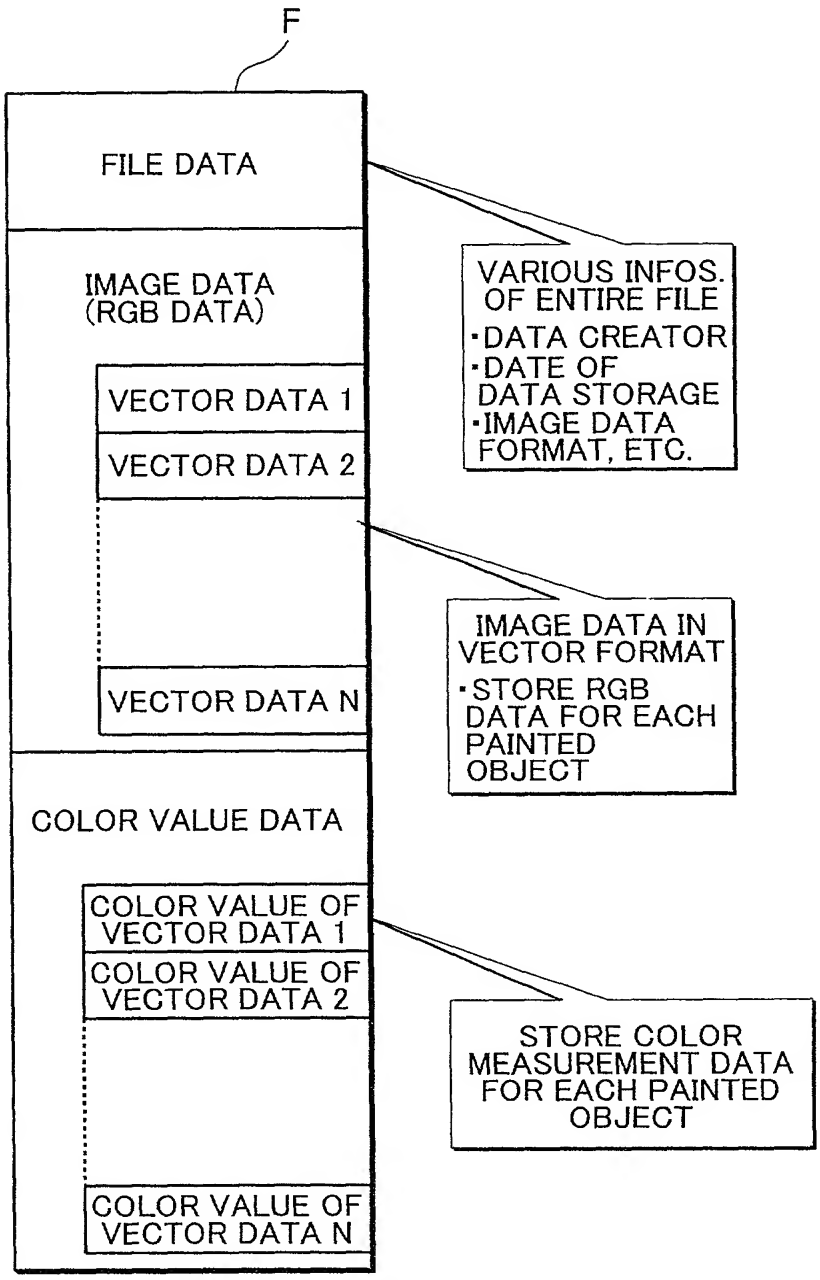

F
FILE DATA
IMAGE DATA (RGB DATA)
VECTOR DATA 1
VECTOR DATA 2
VECTOR DATA N
COLOR VALUE DATA
COLOR VALUE OF VECTOR DATA 1
COLOR VALUE OF VECTOR DATA 2
COLOR VALUE OF VECTOR DATA N
VARIOUS INFOS. OF ENTIRE FILE
·DATA CREATOR
·DATE OF DATA STORAGE
·IMAGE DATA FORMAT, ETC.
IMAGE DATA IN VECTOR FORMAT
·STORE RGB DATA FOR EACH PAINTED OBJECT
STORE COLOR MEASUREMENT DATA FOR EACH PAINTED OBJECT

FIG. 7

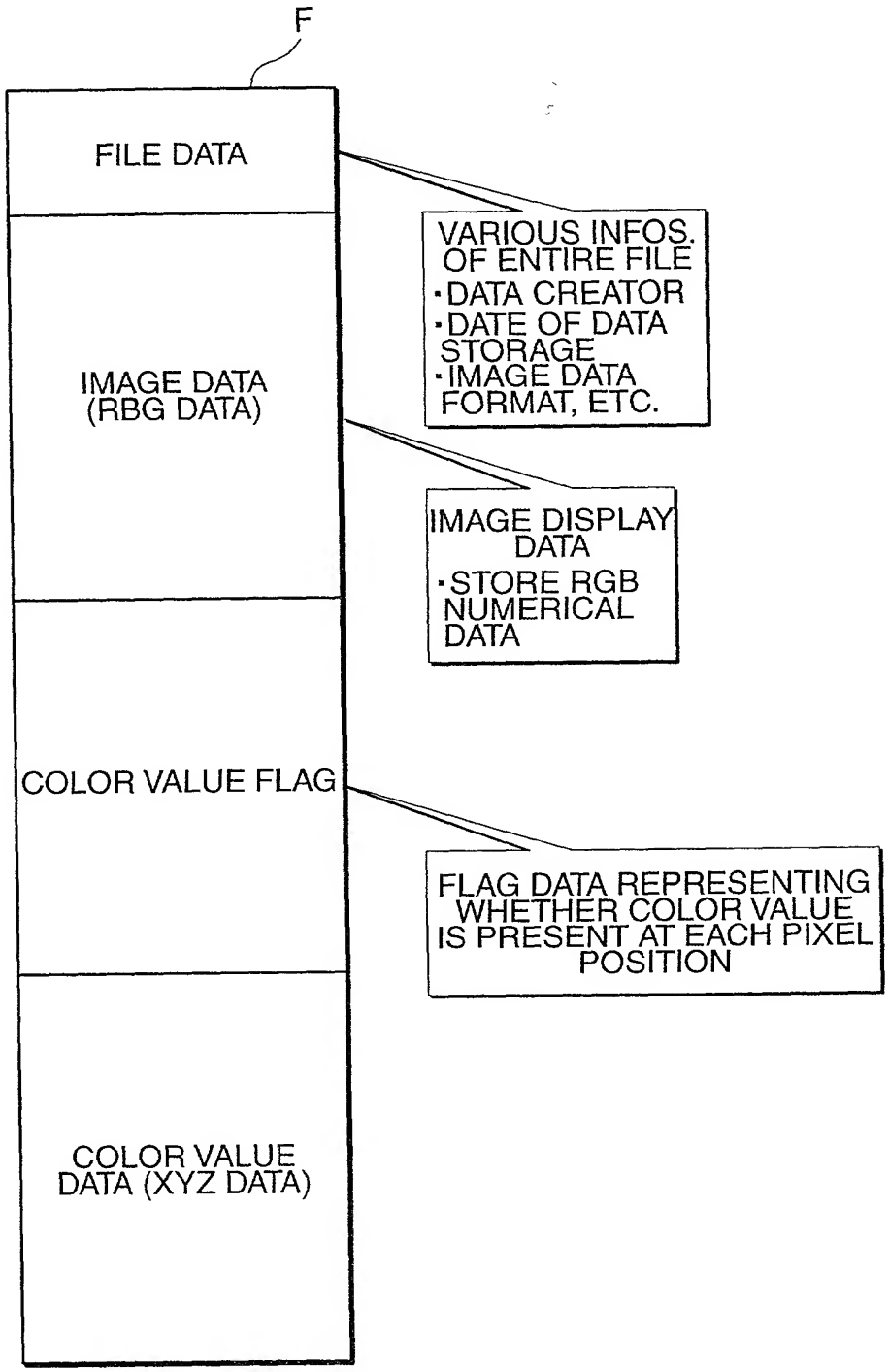

F
FILE DATA
IMAGE DATA (RBG DATA)
COLOR VALUE FLAG
COLOR VALUE DATA (XYZ DATA)
VARIOUS INFOS. OF ENTIRE FILE
• DATA CREATOR
• DATE OF DATA STORAGE
• IMAGE DATA FORMAT, ETC.
IMAGE DISPLAY DATA
• STORE RGB NUMERICAL DATA
FLAG DATA REPRESENTING WHETHER COLOR VALUE IS PRESENT AT EACH PIXEL POSITION

FIG. 8

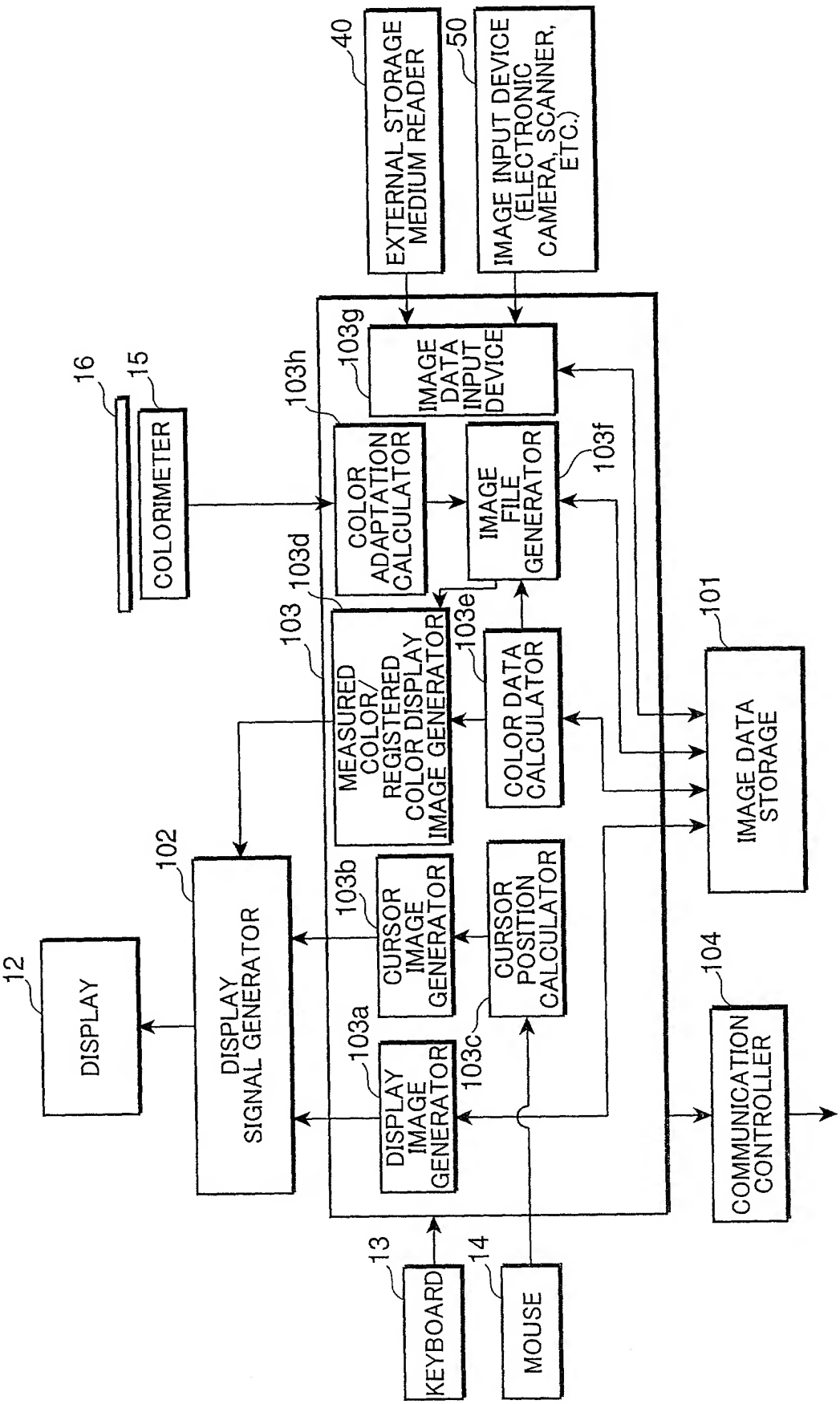

40
EXTERNAL STORAGE MEDIUM READER
50
IMAGE INPUT DEVICE (ELECTRONIC CAMERA, SCANNER, ETC.)
103g
IMAGE DATA INPUT DEVICE
16
15
COLORIMETER
103h
COLOR ADAPTATION CALCULATOR
IMAGE FILE GENERATOR
103f
103d
103
MEASURED COLOR/ REGISTERED COLOR DISPLAY IMAGE GENERATOR
103e
COLOR DATA CALCULATOR
101
IMAGE DATA STORAGE
102
12
DISPLAY
DISPLAY SIGNAL GENERATOR
103b
CURSOR IMAGE GENERATOR
CURSOR POSITION CALCULATOR
103a
DISPLAY IMAGE GENERATOR
103c
104
COMMUNICATION CONTROLLER
13
KEYBOARD
14
MOUSE

FIG. 9

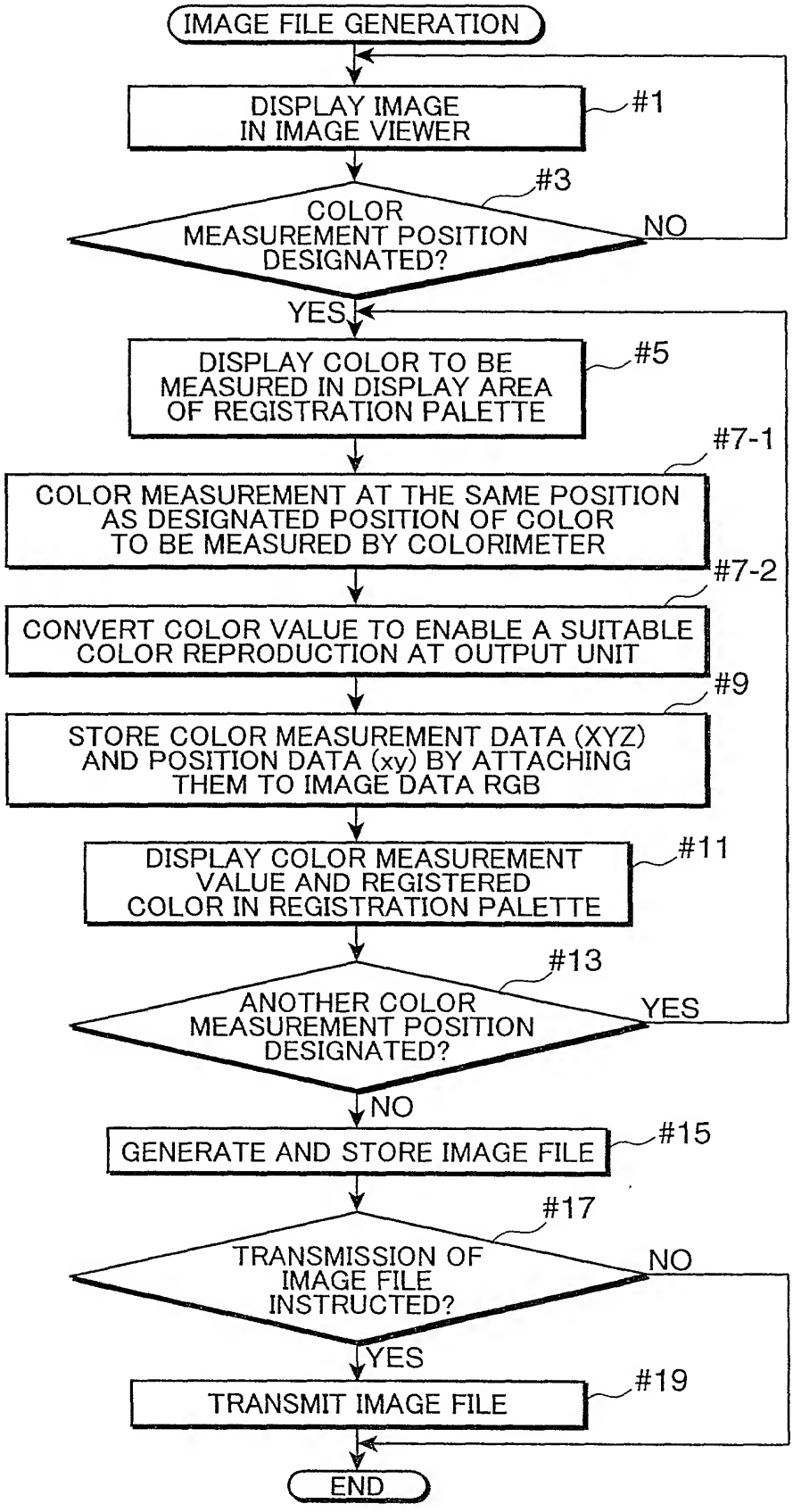


IMAGE FILE GENERATION
DISPLAY IMAGE IN IMAGE VIEWER
#1
COLOR MEASUREMENT POSITION DESIGNATED?
#3
NO
YES
DISPLAY COLOR TO BE MEASURED IN DISPLAY AREA OF REGISTRATION PALETTE
#5
COLOR MEASUREMENT AT THE SAME POSITION AS DESIGNATED POSITION OF COLOR TO BE MEASURED BY COLORIMETER
#7-1
CONVERT COLOR VALUE TO ENABLE A SUITABLE COLOR REPRODUCTION AT OUTPUT UNIT
#7-2
STORE COLOR MEASUREMENT DATA (XYZ) AND POSITION DATA (xy) BY ATTACHING THEM TO IMAGE DATA RGB
#9
DISPLAY COLOR MEASUREMENT VALUE AND REGISTERED COLOR IN REGISTRATION PALETTE
#11
ANOTHER COLOR MEASUREMENT POSITION DESIGNATED?
#13
YES
NO
GENERATE AND STORE IMAGE FILE
#15
TRANSMISSION OF IMAGE FILE INSTRUCTED?
#17
NO
YES
TRANSMIT IMAGE FILE
#19
END

FIG. 10

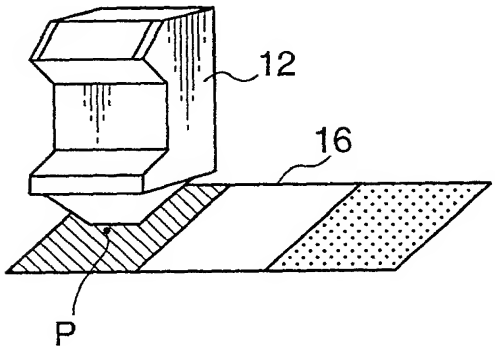


FIG. 11

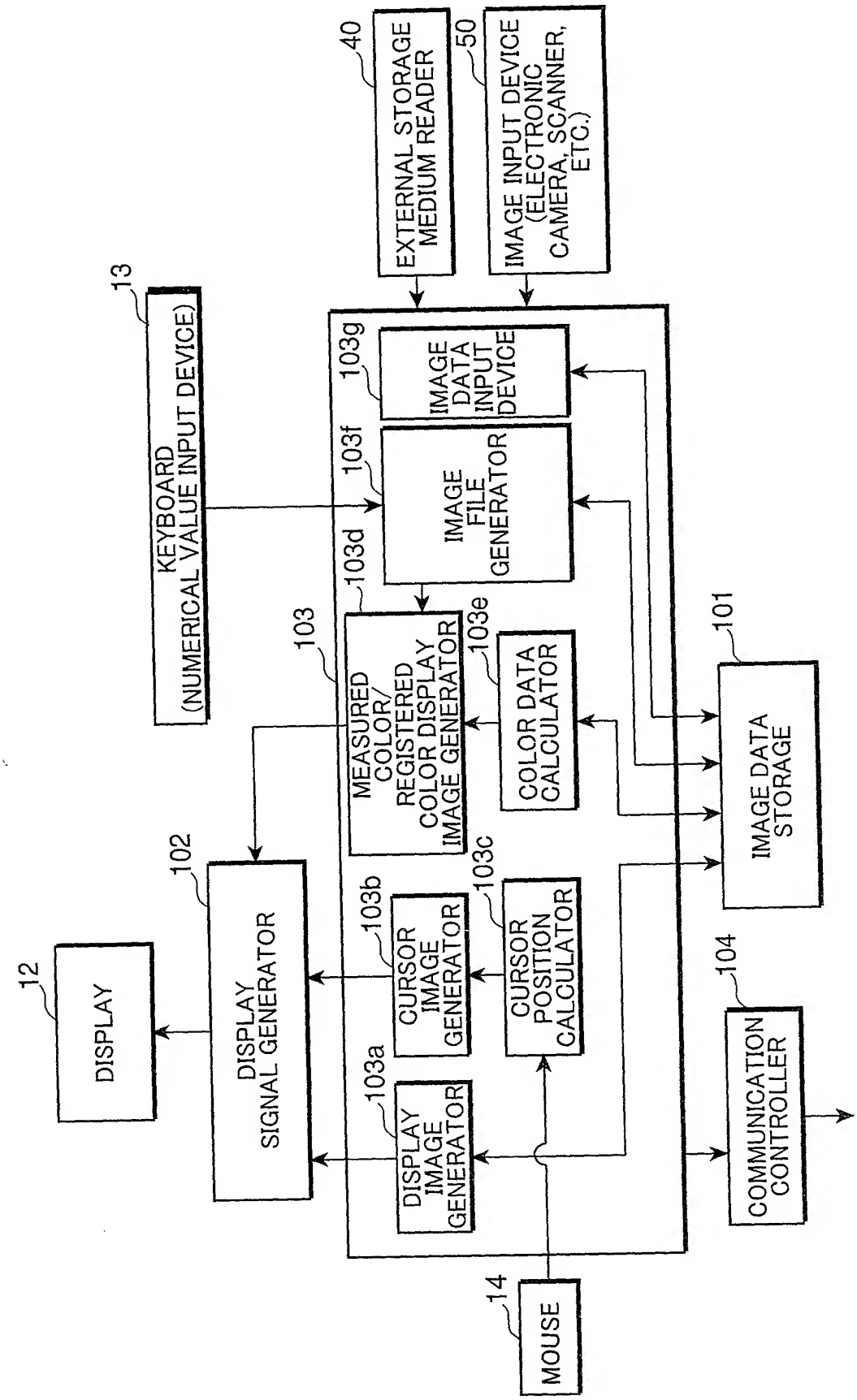

40
EXTERNAL STORAGE MEDIUM READER
50
IMAGE INPUT DEVICE (ELECTRONIC CAMERA, SCANNER, ETC.)
13
KEYBOARD (NUMERICAL VALUE INPUT DEVICE)
103g
IMAGE DATA INPUT DEVICE
103f
IMAGE FILE GENERATOR
103d
103
MEASURED COLOR/ REGISTERED COLOR DISPLAY IMAGE GENERATOR
103e
COLOR DATA CALCULATOR
101
IMAGE DATA STORAGE
102
DISPLAY SIGNAL GENERATOR
103b
CURSOR IMAGE GENERATOR
103c
CURSOR POSITION CALCULATOR
12
DISPLAY
103a
DISPLAY IMAGE GENERATOR
104
COMMUNICATION CONTROLLER
14
MOUSE

FIG. 12

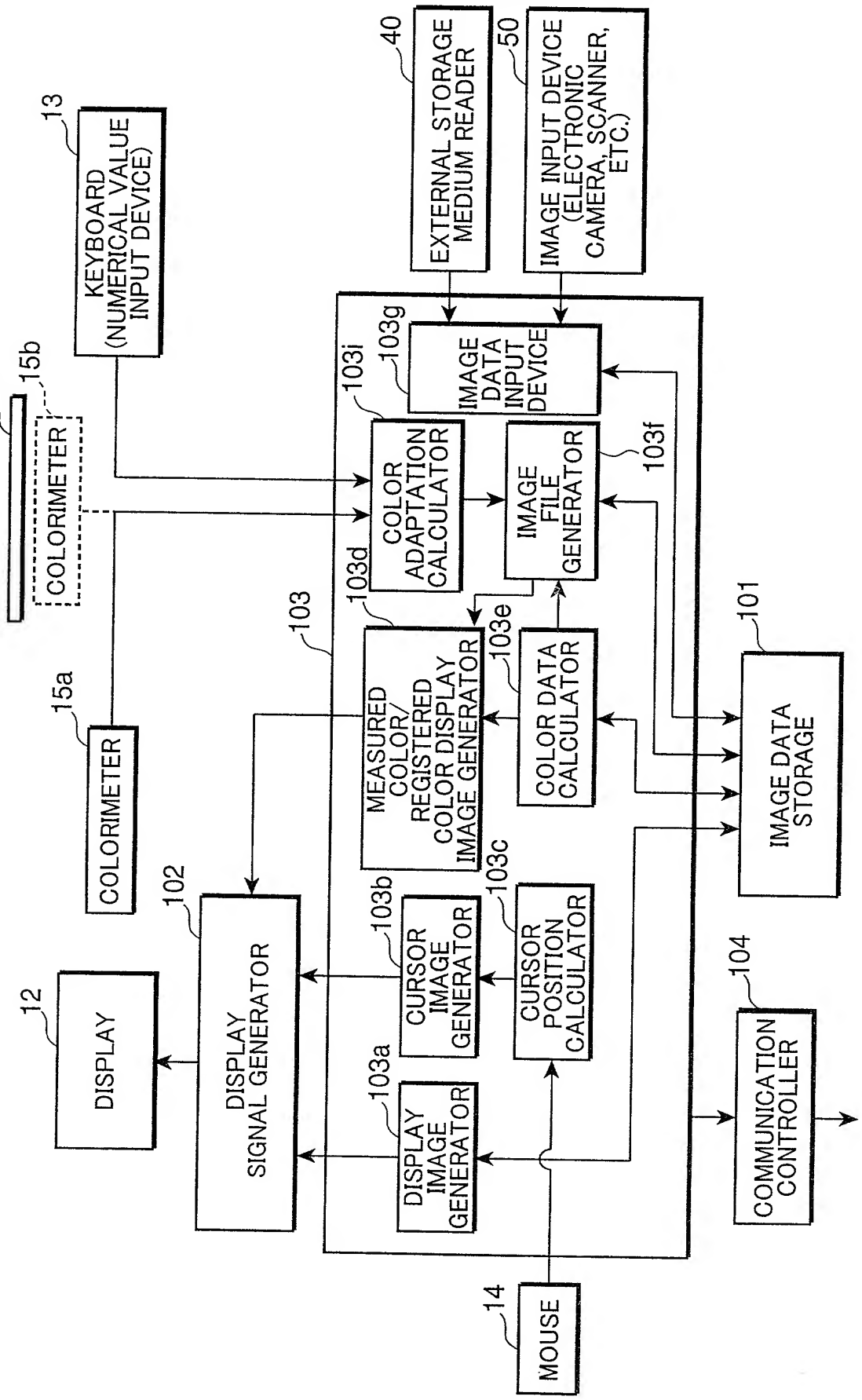

40
EXTERNAL STORAGE MEDIUM READER
50
IMAGE INPUT DEVICE (ELECTRONIC CAMERA, SCANNER, ETC.)
13
KEYBOARD (NUMERICAL VALUE INPUT DEVICE)
16
15b
COLORIMETER
103i
103g
IMAGE DATA INPUT DEVICE
103d
COLOR ADAPTATION CALCULATOR
IMAGE FILE GENERATOR
103f
103
MEASURED COLOR/ REGISTERED COLOR DISPLAY IMAGE GENERATOR
103e
COLOR DATA CALCULATOR
101
IMAGE DATA STORAGE
15a
COLORIMETER
102
DISPLAY SIGNAL GENERATOR
103b
CURSOR IMAGE GENERATOR
103c
CURSOR POSITION CALCULATOR
12
DISPLAY
103a
DISPLAY IMAGE GENERATOR
104
COMMUNICATION CONTROLLER
14
MOUSE

FIG. 13

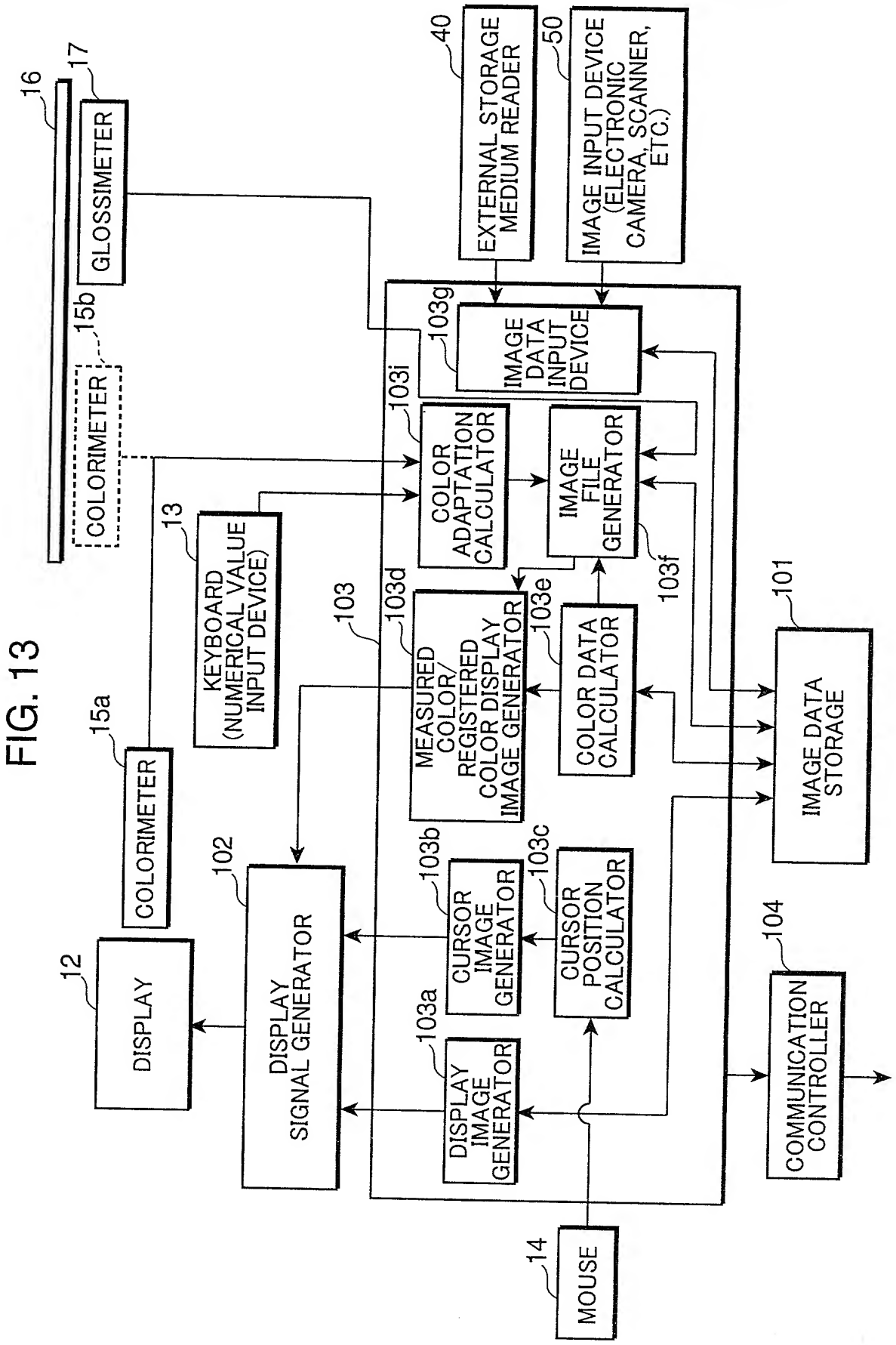

16
17
GLOSSIMETER
15b
COLORIMETER
40
EXTERNAL STORAGE MEDIUM READER
50
IMAGE INPUT DEVICE (ELECTRONIC CAMERA, SCANNER, ETC.)
103g
IMAGE DATA INPUT DEVICE
103i
COLOR ADAPTATION CALCULATOR
IMAGE FILE GENERATOR
103f
13
KEYBOARD (NUMERICAL VALUE INPUT DEVICE)
103
103d
MEASURED COLOR/ REGISTERED COLOR DISPLAY IMAGE GENERATOR
103e
COLOR DATA CALCULATOR
101
IMAGE DATA STORAGE
15a
COLORIMETER
102
DISPLAY SIGNAL GENERATOR
103b
CURSOR IMAGE GENERATOR
103c
CURSOR POSITION CALCULATOR
104
12
DISPLAY
103a
DISPLAY IMAGE GENERATOR
COMMUNICATION CONTROLLER
14
MOUSE

FIG. 14

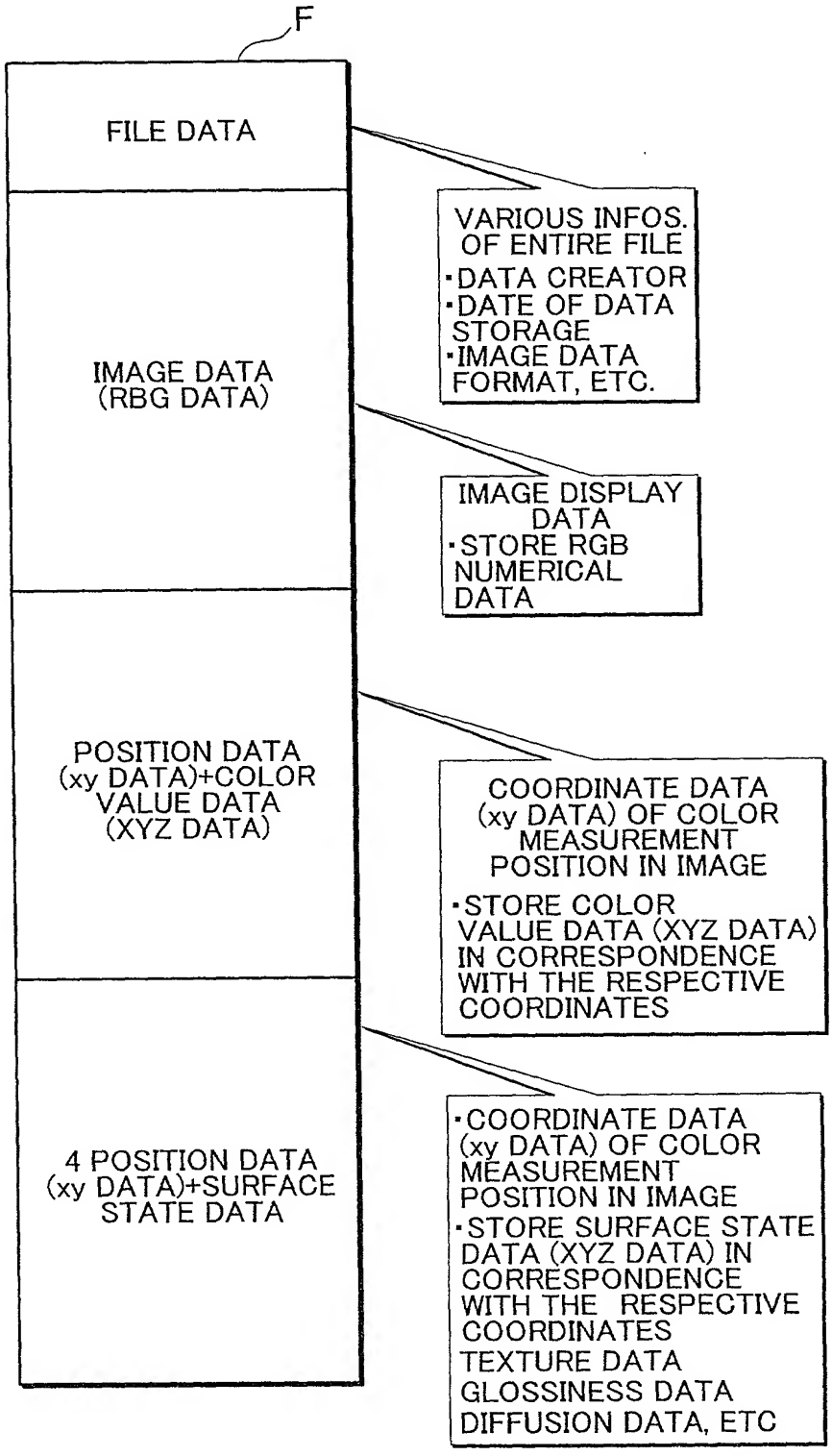

F
FILE DATA
IMAGE DATA (RBG DATA)
POSITION DATA (xy DATA)+COLOR VALUE DATA (XYZ DATA)
4 POSITION DATA (xy DATA)+SURFACE STATE DATA
VARIOUS INFOS. OF ENTIRE FILE
·DATA CREATOR
·DATE OF DATA STORAGE
·IMAGE DATA FORMAT, ETC.
IMAGE DISPLAY DATA
·STORE RGB NUMERICAL DATA
COORDINATE DATA (xy DATA) OF COLOR MEASUREMENT POSITION IN IMAGE
·STORE COLOR VALUE DATA (XYZ DATA) IN CORRESPONDENCE WITH THE RESPECTIVE COORDINATES
·COORDINATE DATA (xy DATA) OF COLOR MEASUREMENT POSITION IN IMAGE
·STORE SURFACE STATE DATA (XYZ DATA) IN CORRESPONDENCE WITH THE RESPECTIVE COORDINATES
TEXTURE DATA
GLOSSINESS DATA
DIFFUSION DATA, ETC

FIG. 15

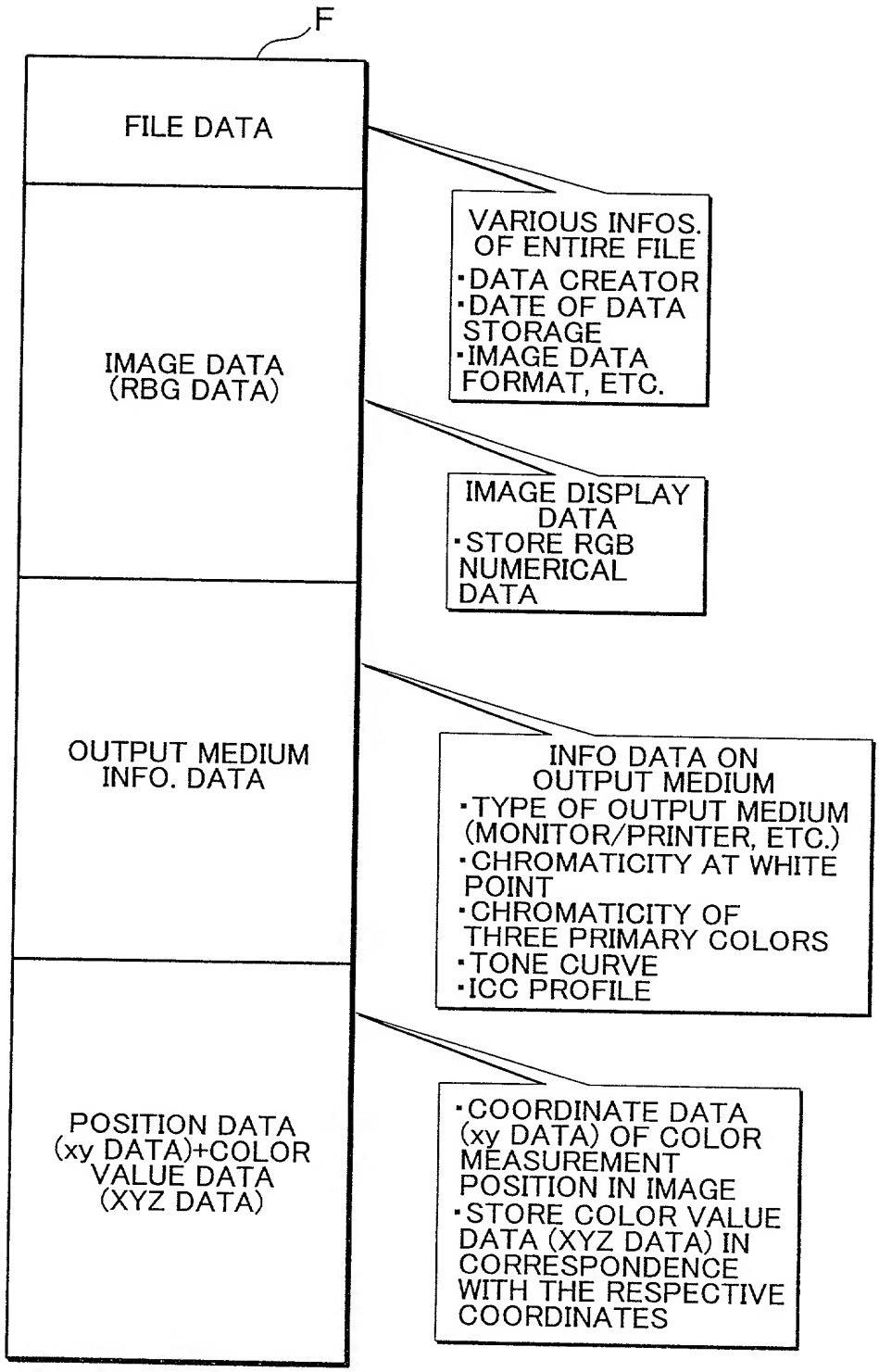

F
FILE DATA
IMAGE DATA (RBG DATA)
OUTPUT MEDIUM INFO. DATA
POSITION DATA (xy DATA)+COLOR VALUE DATA (XYZ DATA)
VARIOUS INFOS. OF ENTIRE FILE
·DATA CREATOR
·DATE OF DATA STORAGE
·IMAGE DATA FORMAT, ETC.
IMAGE DISPLAY DATA
·STORE RGB NUMERICAL DATA
INFO DATA ON OUTPUT MEDIUM
·TYPE OF OUTPUT MEDIUM (MONITOR/PRINTER, ETC.)
·CHROMATICITY AT WHITE POINT
·CHROMATICITY OF THREE PRIMARY COLORS
·TONE CURVE
·ICC PROFILE
·COORDINATE DATA (xy DATA) OF COLOR MEASUREMENT POSITION IN IMAGE
·STORE COLOR VALUE DATA (XYZ DATA) IN CORRESPONDENCE WITH THE RESPECTIVE COORDINATES

FIG. 16

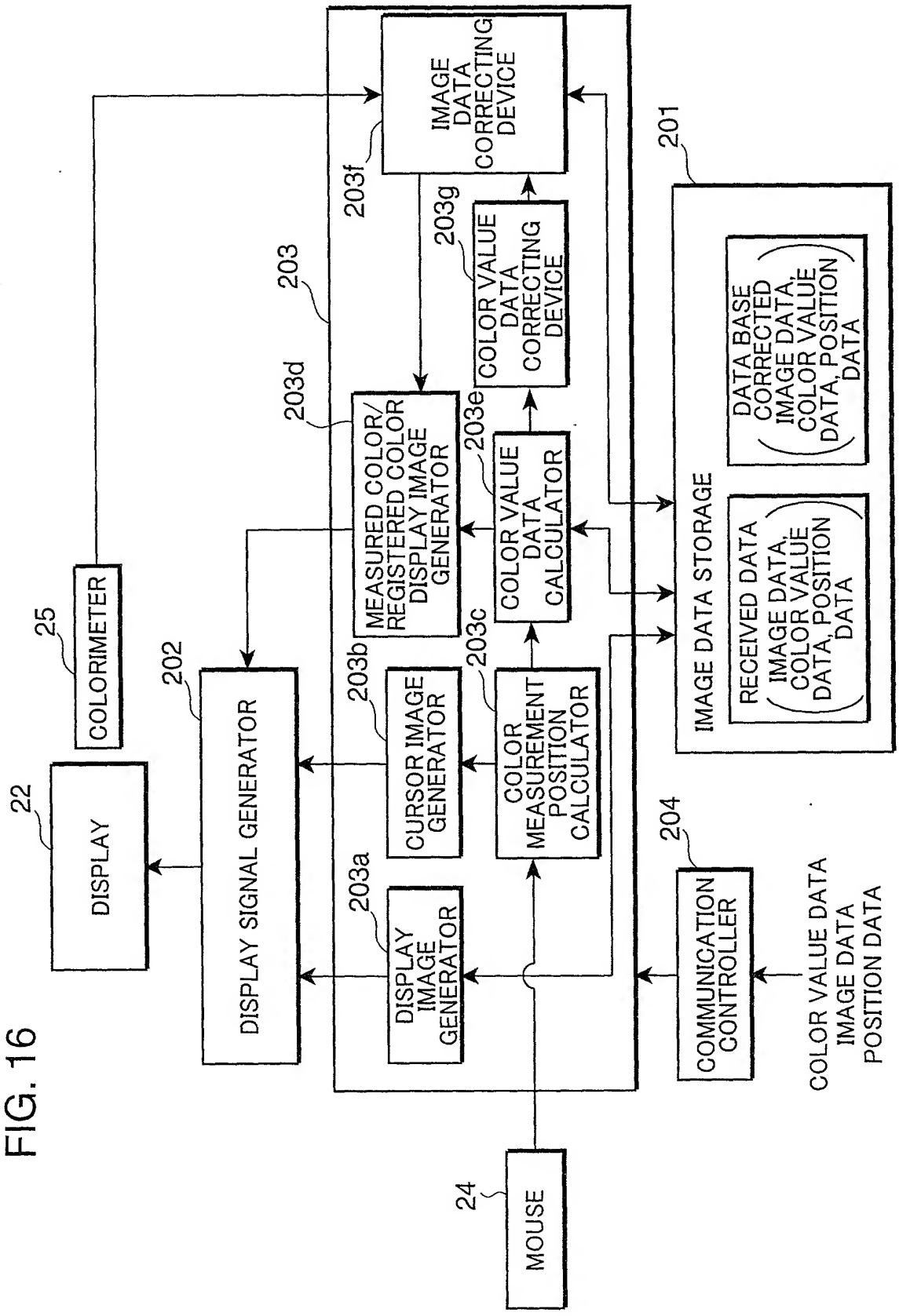


IMAGE DATA CORRECTING DEVICE
203f
203g
COLOR VALUE DATA CORRECTING DEVICE
203
203d
MEASURED COLOR/ REGISTERED COLOR DISPLAY IMAGE GENERATOR
203e
COLOR VALUE DATA CALCULATOR
201
IMAGE DATA STORAGE
DATA BASE CORRECTED IMAGE DATA, COLOR VALUE DATA, POSITION DATA
RECEIVED DATA (IMAGE DATA, COLOR VALUE DATA, POSITION DATA
25
COLORIMETER
202
DISPLAY SIGNAL GENERATOR
203b
CURSOR IMAGE GENERATOR
203c
COLOR MEASUREMENT POSITION CALCULATOR
22
DISPLAY
203a
DISPLAY IMAGE GENERATOR
204
COMMUNICATION CONTROLLER
COLOR VALUE DATA
IMAGE DATA
POSITION DATA
24
MOUSE

FIG. 17

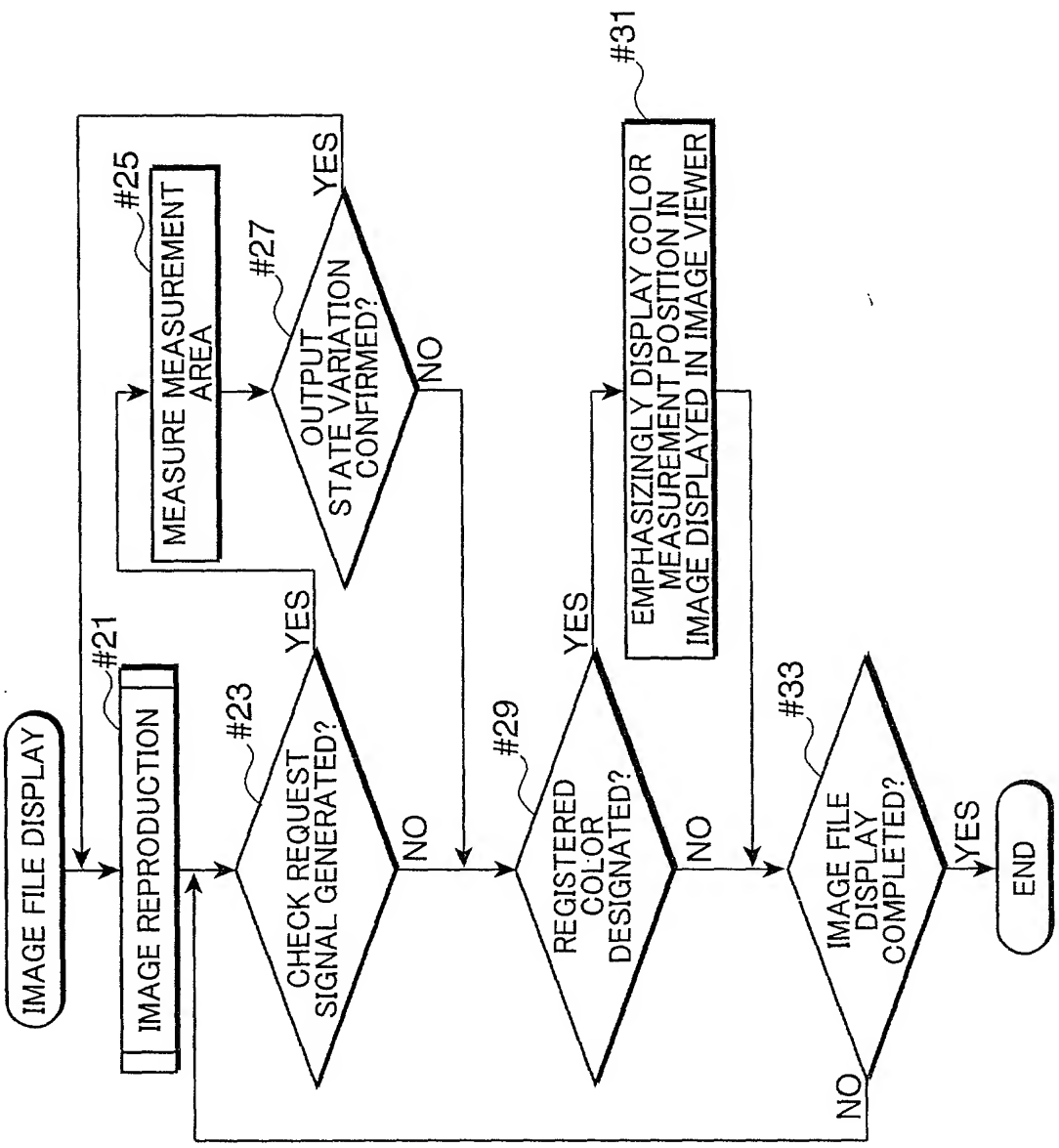


IMAGE FILE DISPLAY
#21
IMAGE REPRODUCTION
#23
CHECK REQUEST SIGNAL GENERATED?
YES
NO
#25
MEASURE MEASUREMENT AREA
#27
OUTPUT STATE VARIATION CONFIRMED?
YES
NO
#29
REGISTERED COLOR DESIGNATED?
YES
NO
#31
EMPHASIZINGLY DISPLAY COLOR MEASUREMENT POSITION IN IMAGE DISPLAYED IN IMAGE VIEWER
#33
IMAGE FILE DISPLAY COMPLETED?
YES
NO
END

FIG. 18

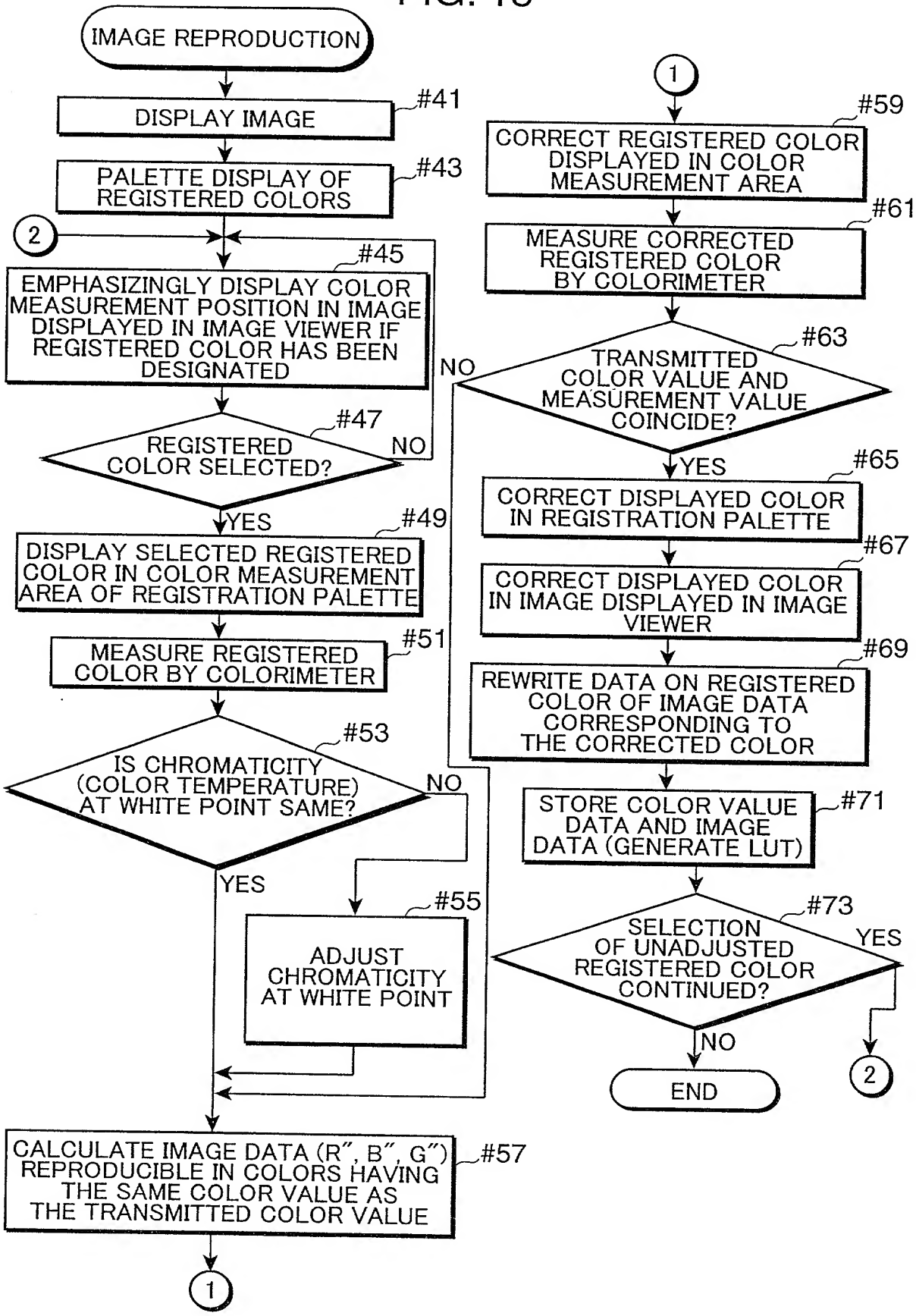


IMAGE REPRODUCTION
DISPLAY IMAGE
#41
PALETTE DISPLAY OF REGISTERED COLORS
#43
2
#45
EMPHASIZINGLY DISPLAY COLOR MEASUREMENT POSITION IN IMAGE DISPLAYED IN IMAGE VIEWER IF REGISTERED COLOR HAS BEEN DESIGNATED
#47
REGISTERED COLOR SELECTED?
NO
YES
#49
DISPLAY SELECTED REGISTERED COLOR IN COLOR MEASUREMENT AREA OF REGISTRATION PALETTE
#51
MEASURE REGISTERED COLOR BY COLORIMETER
#53
IS CHROMATICITY (COLOR TEMPERATURE) AT WHITE POINT SAME?
NO
YES
#55
ADJUST CHROMATICITY AT WHITE POINT
#57
CALCULATE IMAGE DATA (R″, B″, G″) REPRODUCIBLE IN COLORS HAVING THE SAME COLOR VALUE AS THE TRANSMITTED COLOR VALUE
1
1
#59
CORRECT REGISTERED COLOR DISPLAYED IN COLOR MEASUREMENT AREA
#61
MEASURE CORRECTED REGISTERED COLOR BY COLORIMETER
#63
TRANSMITTED COLOR VALUE AND MEASUREMENT VALUE COINCIDE?
NO
YES
#65
CORRECT DISPLAYED COLOR IN REGISTRATION PALETTE
#67
CORRECT DISPLAYED COLOR IN IMAGE DISPLAYED IN IMAGE VIEWER
#69
REWRITE DATA ON REGISTERED COLOR OF IMAGE DATA CORRESPONDING TO THE CORRECTED COLOR
#71
STORE COLOR VALUE DATA AND IMAGE DATA (GENERATE LUT)
#73
SELECTION OF UNADJUSTED REGISTERED COLOR CONTINUED?
YES
NO
END
2

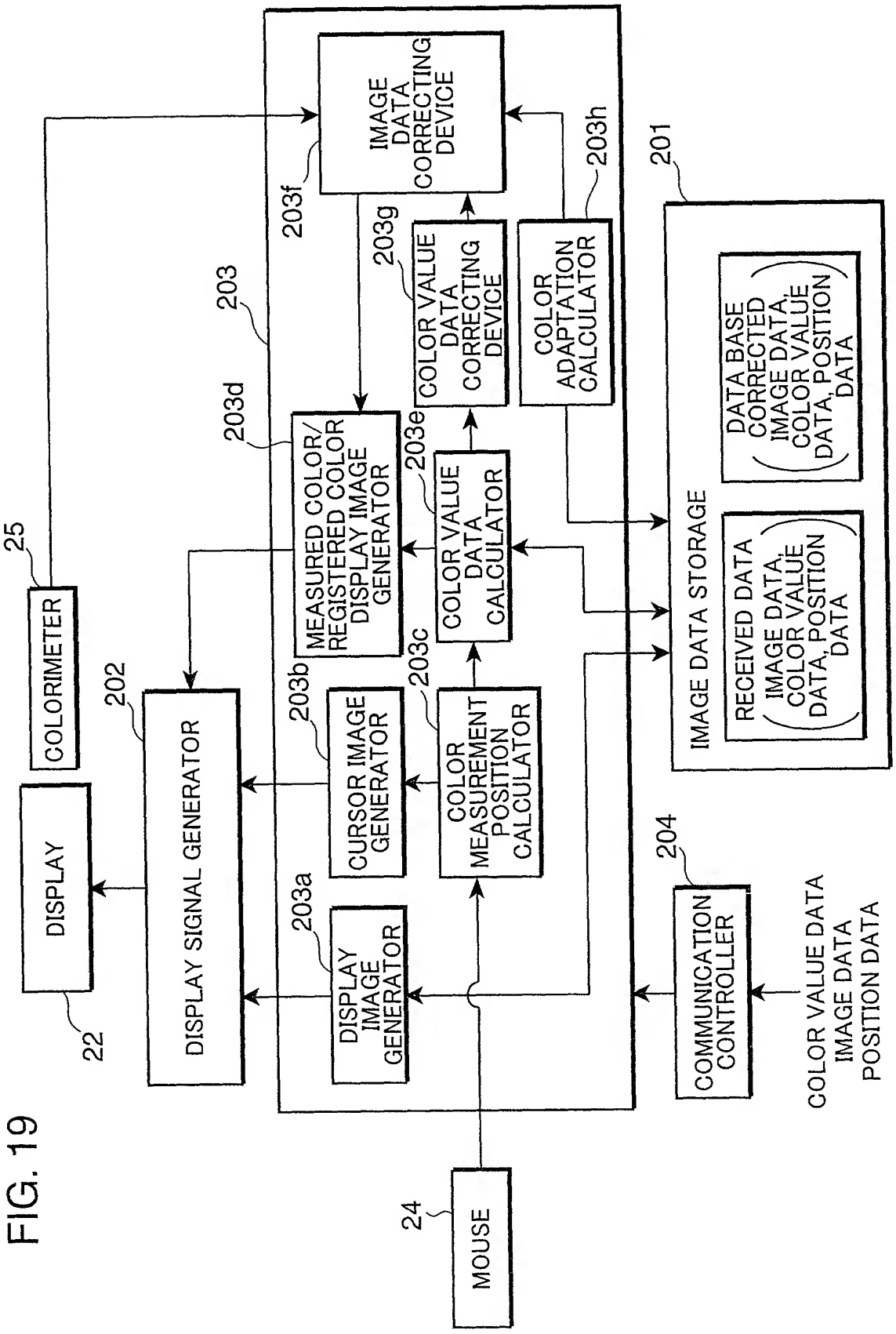

DISPLAY
22
COLORIMETER
25
DISPLAY SIGNAL GENERATOR
202
203
IMAGE DATA CORRECTING DEVICE
203f
COLOR VALUE DATA CORRECTING DEVICE
203g
COLOR ADAPTATION CALCULATOR
203h
MEASURED COLOR/ REGISTERED COLOR DISPLAY IMAGE GENERATOR
203d
COLOR VALUE DATA CALCULATOR
203e
CURSOR IMAGE GENERATOR
203b
COLOR MEASUREMENT POSITION CALCULATOR
203c
DISPLAY IMAGE GENERATOR
203a
201
IMAGE DATA STORAGE
RECEIVED DATA (IMAGE DATA, COLOR VALUE DATA, POSITION DATA)
DATA BASE CORRECTED IMAGE DATA, COLOR VALUE DATA, POSITION DATA
204
COMMUNICATION CONTROLLER
COLOR VALUE DATA
IMAGE DATA
POSITION DATA
MOUSE
24

FIG. 19

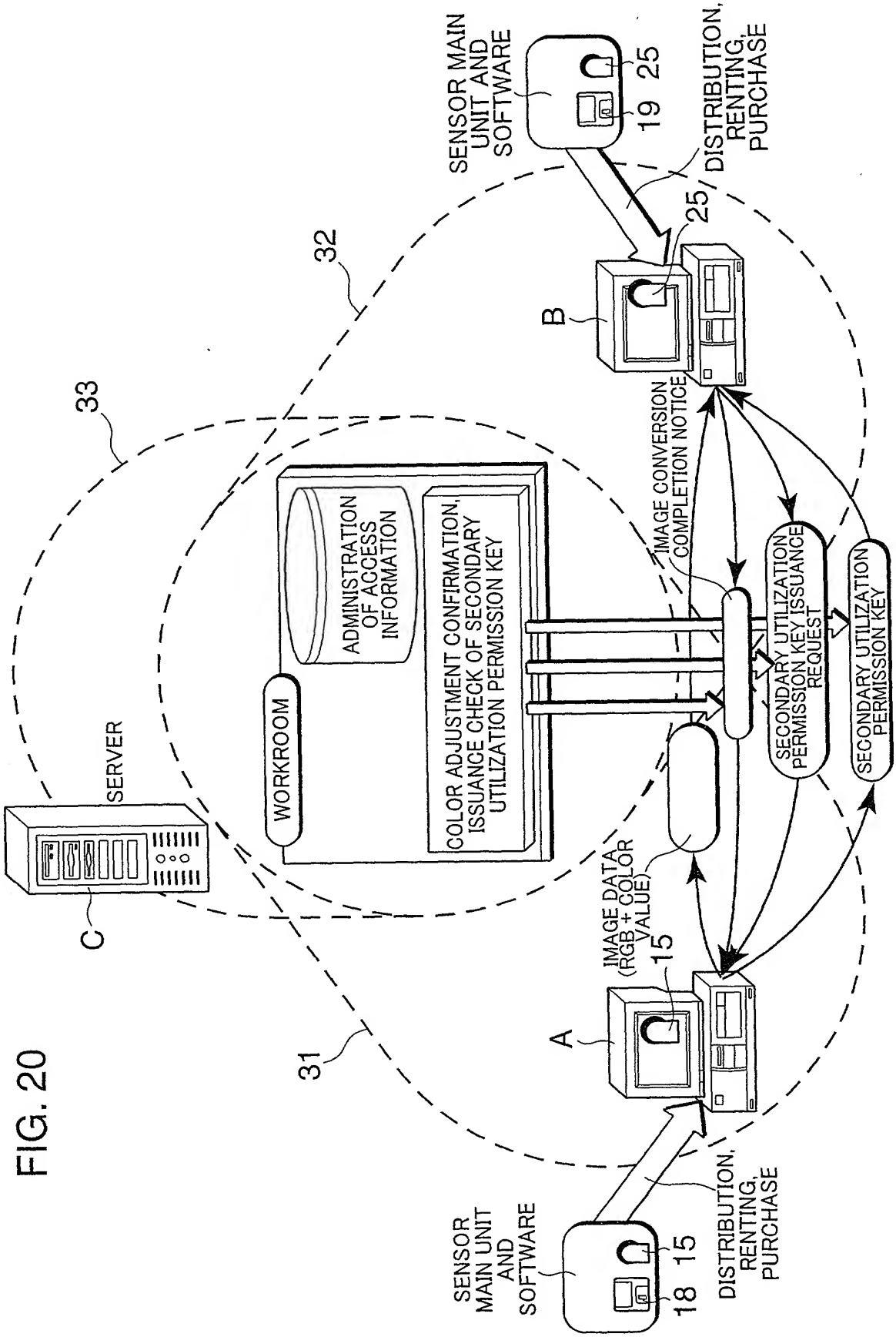

SENSOR MAIN UNIT AND SOFTWARE
19 25
DISTRIBUTION, RENTING, PURCHASE
32
25
B
33
IMAGE CONVERSION COMPLETION NOTICE
ADMINISTRATION OF ACCESS INFORMATION
COLOR ADJUSTMENT CONFIRMATION, ISSUANCE CHECK OF SECONDARY UTILIZATION PERMISSION KEY
WORKROOM
SECONDARY UTILIZATION PERMISSION KEY ISSUANCE REQUEST
SECONDARY UTILIZATION PERMISSION KEY
SERVER
C
IMAGE DATA (RGB + COLOR VALUE)
15
A
31
SENSOR MAIN UNIT AND SOFTWARE
18 15
DISTRIBUTION, RENTING, PURCHASE

FIG. 20

FIG. 21

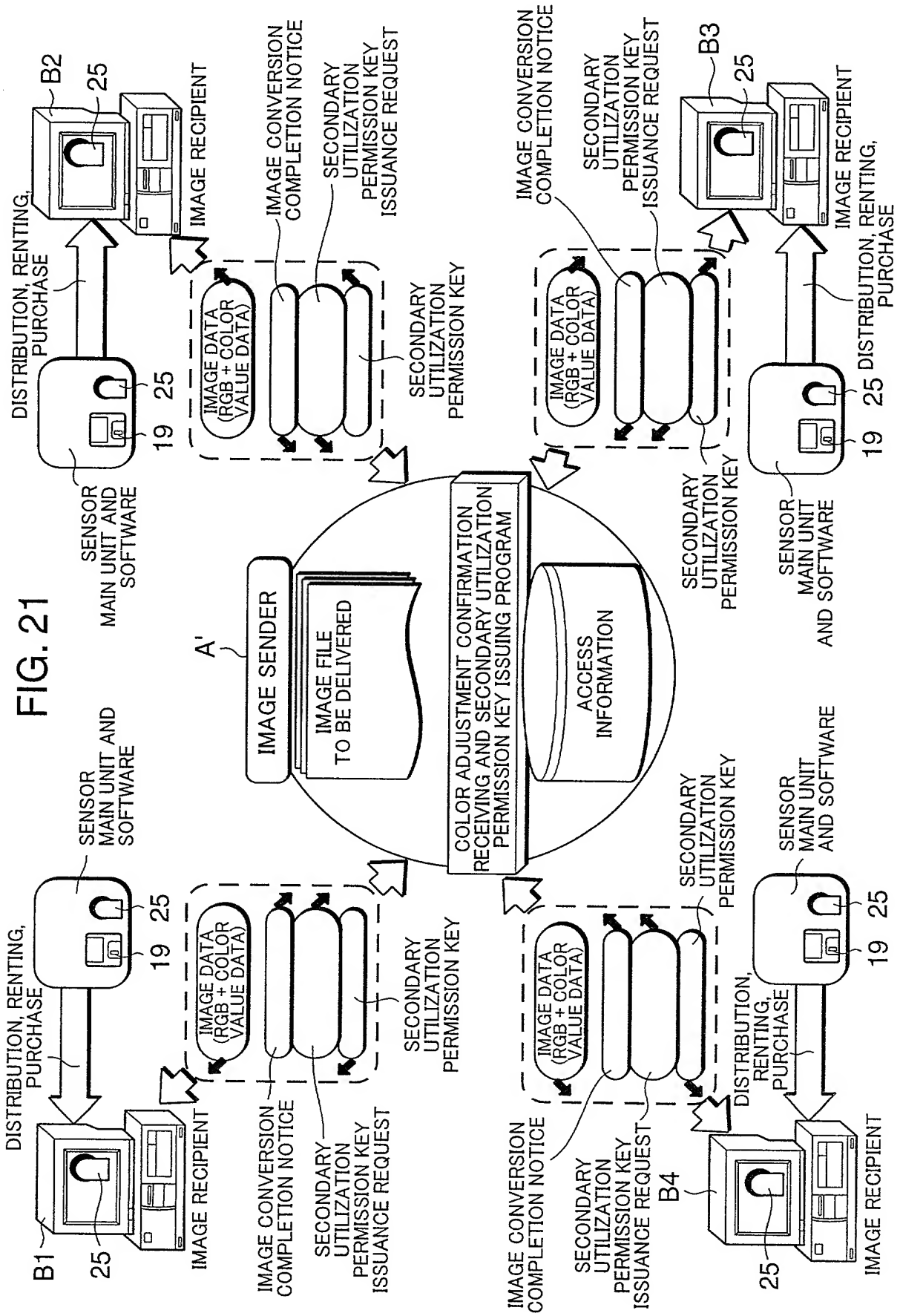

A'
IMAGE SENDER
IMAGE FILE TO BE DELIVERED
ACCESS INFORMATION
COLOR ADJUSTMENT CONFIRMATION RECEIVING AND SECONDARY UTILIZATION PERMISSION KEY ISSUING PROGRAM
B1
B2
B3
B4
25
19
SENSOR MAIN UNIT AND SOFTWARE
DISTRIBUTION, RENTING, PURCHASE
IMAGE RECIPIENT
IMAGE DATA (RGB + COLOR VALUE DATA)
IMAGE CONVERSION COMPLETION NOTICE
SECONDARY UTILIZATION PERMISSION KEY ISSUANCE REQUEST
SECONDARY UTILIZATION PERMISSION KEY

FIG. 22A

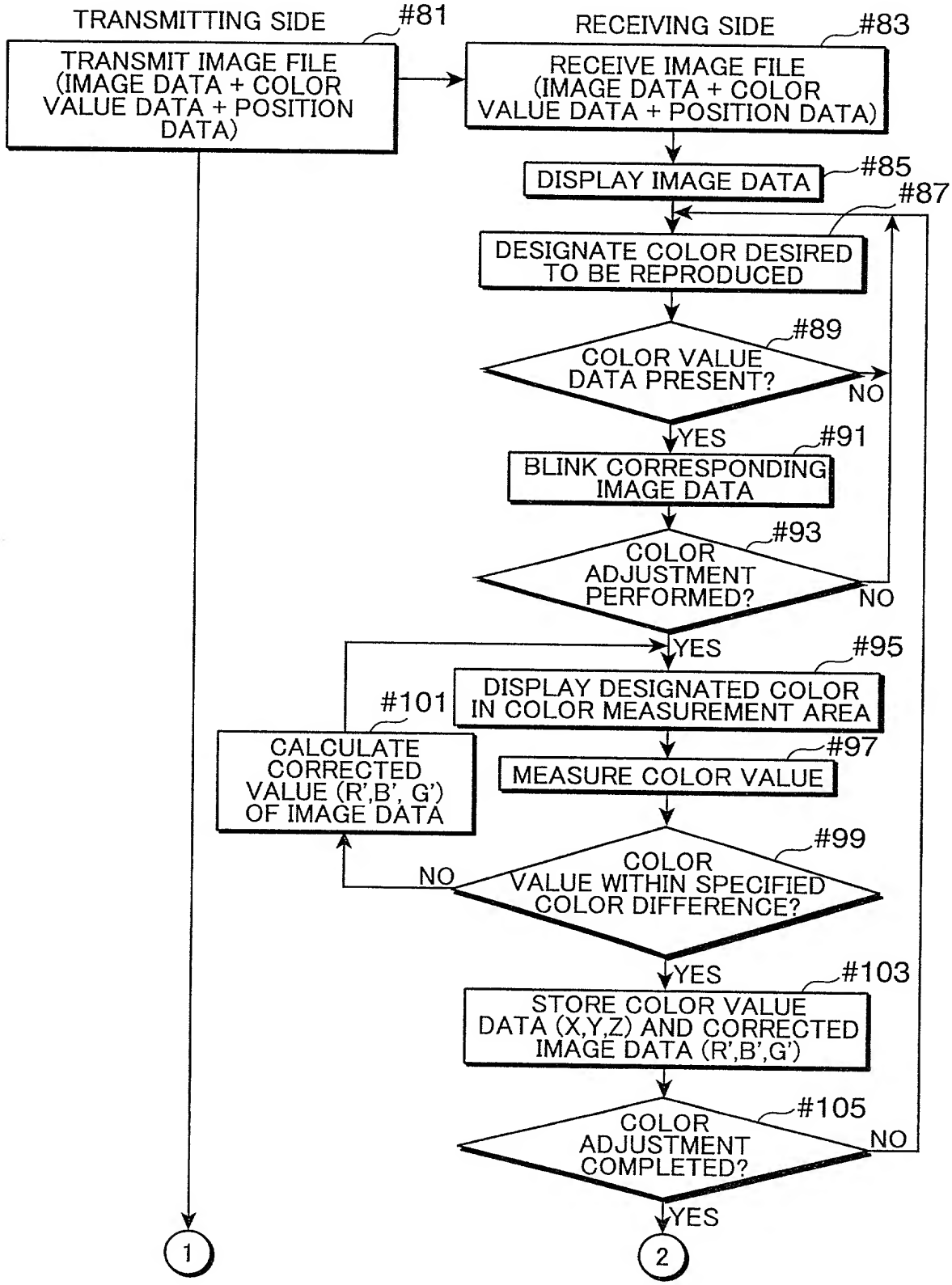

TRANSMITTING SIDE
#81
TRANSMIT IMAGE FILE (IMAGE DATA + COLOR VALUE DATA + POSITION DATA)
RECEIVING SIDE
#83
RECEIVE IMAGE FILE (IMAGE DATA + COLOR VALUE DATA + POSITION DATA)
DISPLAY IMAGE DATA
#85
#87
DESIGNATE COLOR DESIRED TO BE REPRODUCED
#89
COLOR VALUE DATA PRESENT?
NO
YES
#91
BLINK CORRESPONDING IMAGE DATA
#93
COLOR ADJUSTMENT PERFORMED?
NO
YES
#95
DISPLAY DESIGNATED COLOR IN COLOR MEASUREMENT AREA
#97
MEASURE COLOR VALUE
#99
COLOR VALUE WITHIN SPECIFIED COLOR DIFFERENCE?
NO
#101
CALCULATE CORRECTED VALUE (R',B', G') OF IMAGE DATA
YES
#103
STORE COLOR VALUE DATA (X,Y,Z) AND CORRECTED IMAGE DATA (R',B',G')
#105
COLOR ADJUSTMENT COMPLETED?
NO
YES
1
2

FIG. 22B

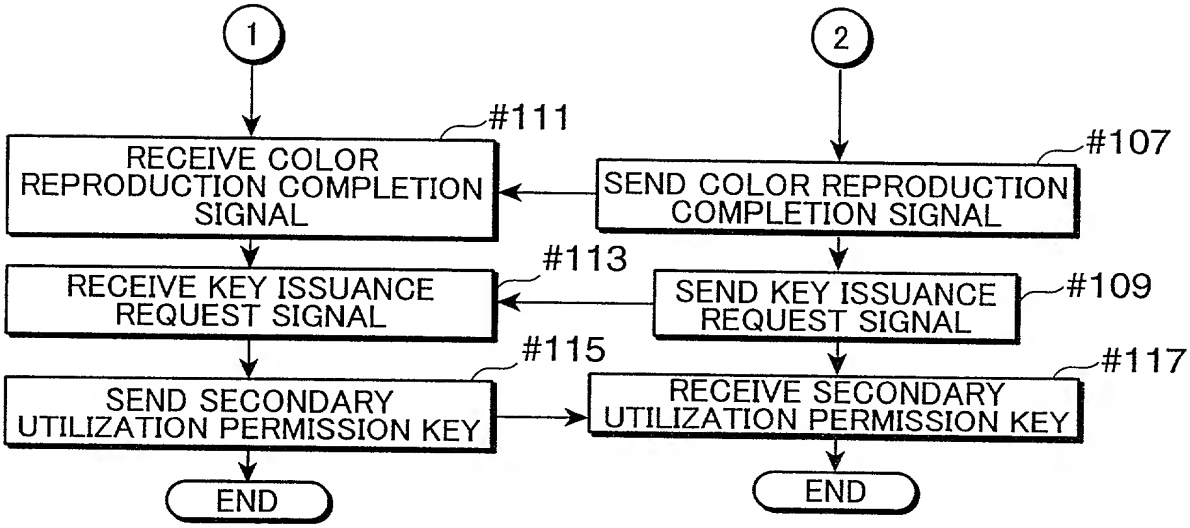

1
2
#111
RECEIVE COLOR REPRODUCTION COMPLETION SIGNAL
#107
SEND COLOR REPRODUCTION COMPLETION SIGNAL
#113
RECEIVE KEY ISSUANCE REQUEST SIGNAL
SEND KEY ISSUANCE REQUEST SIGNAL
#109
#115
SEND SECONDARY UTILIZATION PERMISSION KEY
#117
RECEIVE SECONDARY UTILIZATION PERMISSION KEY
END
END

FIG. 23A

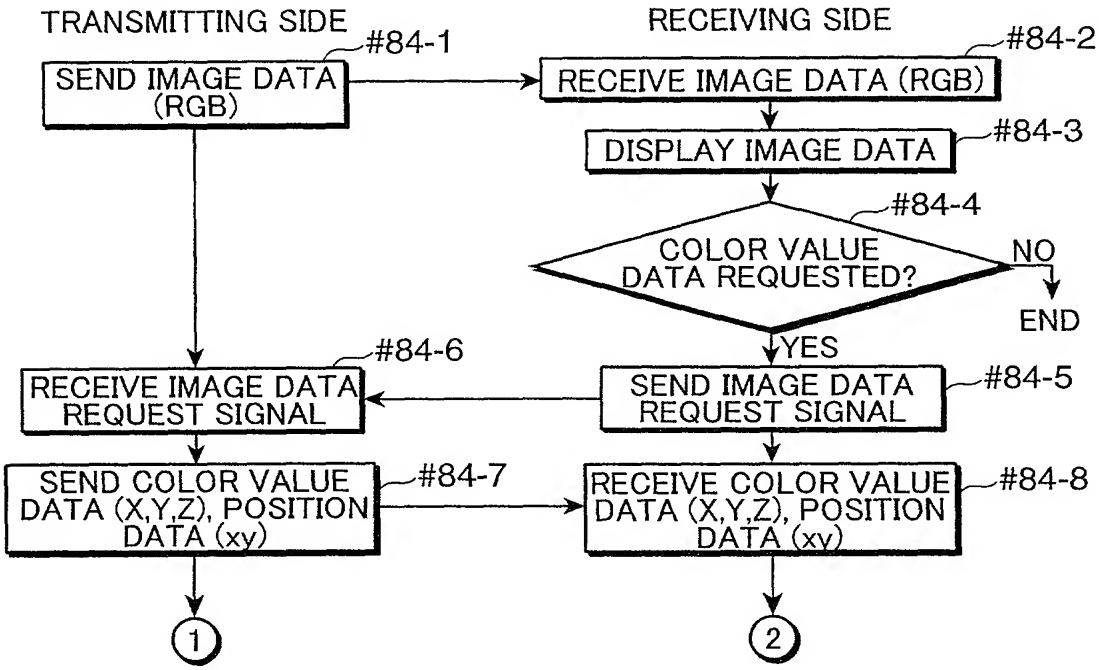

TRANSMITTING SIDE
RECEIVING SIDE
#84-1
SEND IMAGE DATA (RGB)
#84-2
RECEIVE IMAGE DATA (RGB)
DISPLAY IMAGE DATA
#84-3
#84-4
COLOR VALUE DATA REQUESTED?
NO
END
YES
#84-6
RECEIVE IMAGE DATA REQUEST SIGNAL
SEND IMAGE DATA REQUEST SIGNAL
#84-5
SEND COLOR VALUE DATA (X,Y,Z), POSITION DATA (xy)
#84-7
RECEIVE COLOR VALUE DATA (X,Y,Z), POSITION DATA (xy)
#84-8
1
2

FIG. 23B

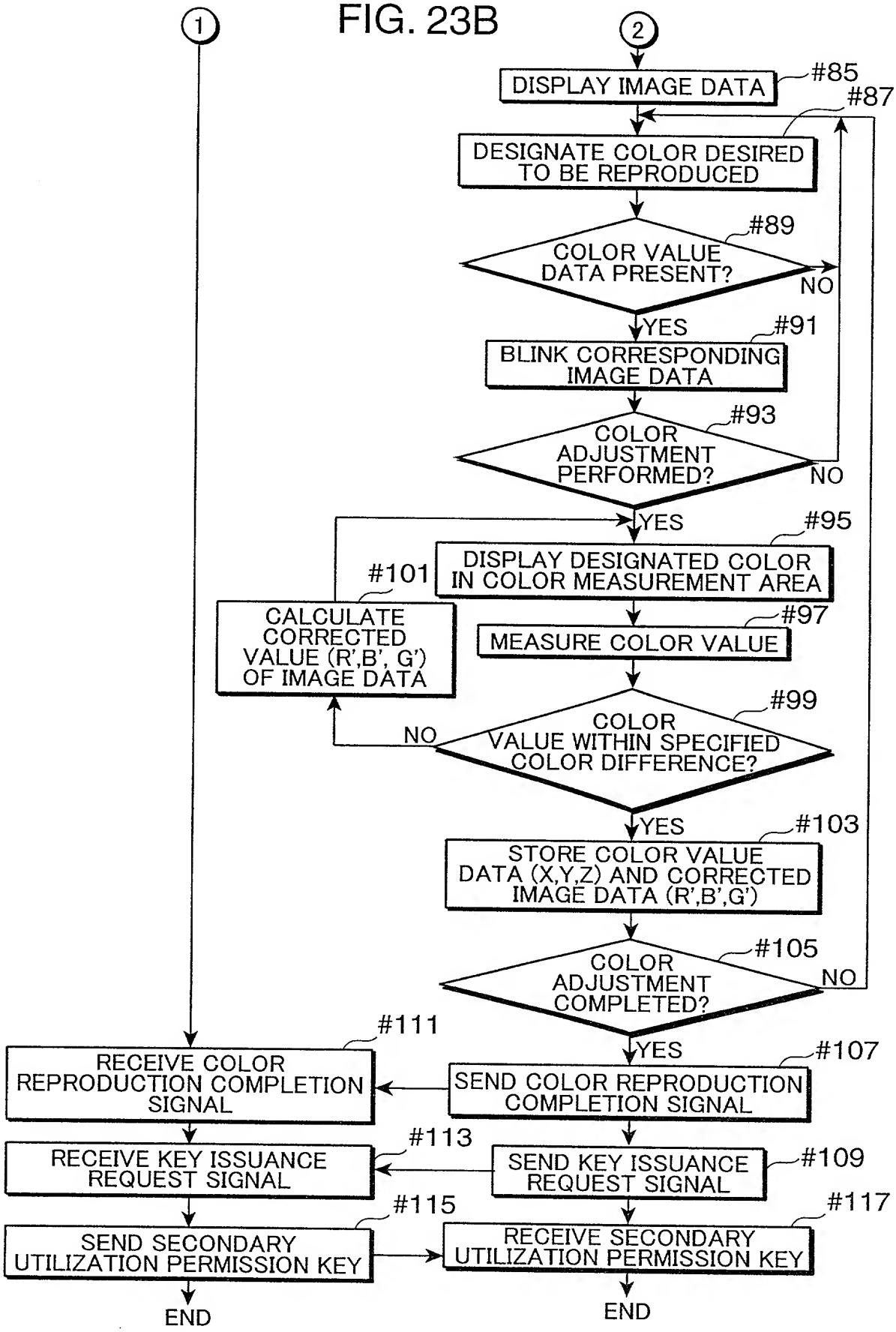

1
2
DISPLAY IMAGE DATA
#85
#87
DESIGNATE COLOR DESIRED TO BE REPRODUCED
#89
COLOR VALUE DATA PRESENT?
NO
YES
#91
BLINK CORRESPONDING IMAGE DATA
#93
COLOR ADJUSTMENT PERFORMED?
NO
YES
#95
DISPLAY DESIGNATED COLOR IN COLOR MEASUREMENT AREA
#97
MEASURE COLOR VALUE
#99
COLOR VALUE WITHIN SPECIFIED COLOR DIFFERENCE?
NO
#101
CALCULATE CORRECTED VALUE (R',B', G') OF IMAGE DATA
YES
#103
STORE COLOR VALUE DATA (X,Y,Z) AND CORRECTED IMAGE DATA (R',B',G')
#105
COLOR ADJUSTMENT COMPLETED?
NO
YES
#107
SEND COLOR REPRODUCTION COMPLETION SIGNAL
#109
SEND KEY ISSUANCE REQUEST SIGNAL
#111
RECEIVE COLOR REPRODUCTION COMPLETION SIGNAL
#113
RECEIVE KEY ISSUANCE REQUEST SIGNAL
#115
SEND SECONDARY UTILIZATION PERMISSION KEY
#117
RECEIVE SECONDARY UTILIZATION PERMISSION KEY
END
END

FIG. 24A

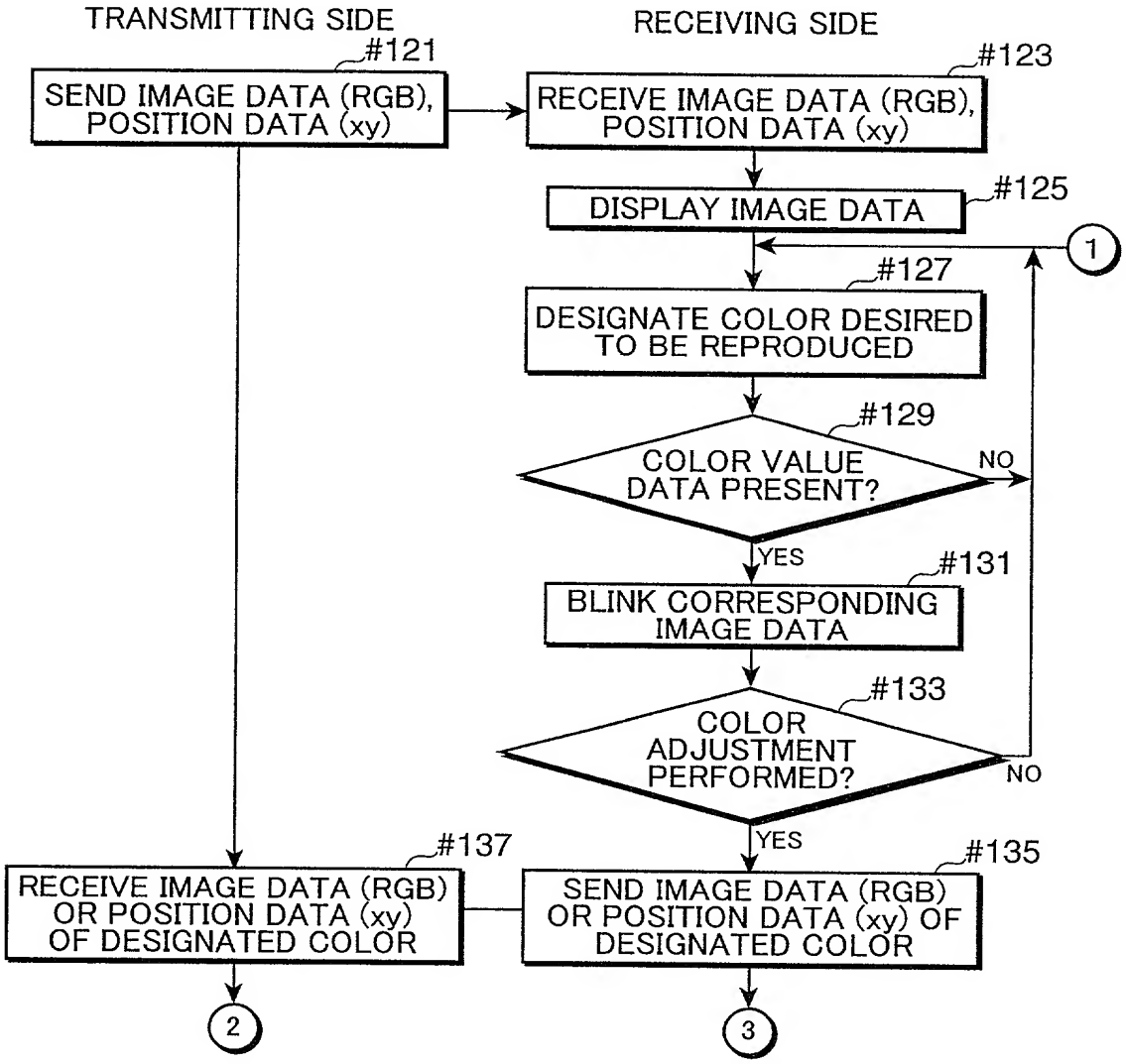

TRANSMITTING SIDE
RECEIVING SIDE
#121
SEND IMAGE DATA (RGB), POSITION DATA (xy)
#123
RECEIVE IMAGE DATA (RGB), POSITION DATA (xy)
DISPLAY IMAGE DATA
#125
1
#127
DESIGNATE COLOR DESIRED TO BE REPRODUCED
#129
COLOR VALUE DATA PRESENT?
NO
YES
#131
BLINK CORRESPONDING IMAGE DATA
#133
COLOR ADJUSTMENT PERFORMED?
NO
YES
#135
SEND IMAGE DATA (RGB) OR POSITION DATA (xy) OF DESIGNATED COLOR
#137
RECEIVE IMAGE DATA (RGB) OR POSITION DATA (xy) OF DESIGNATED COLOR
2
3

FIG. 24B

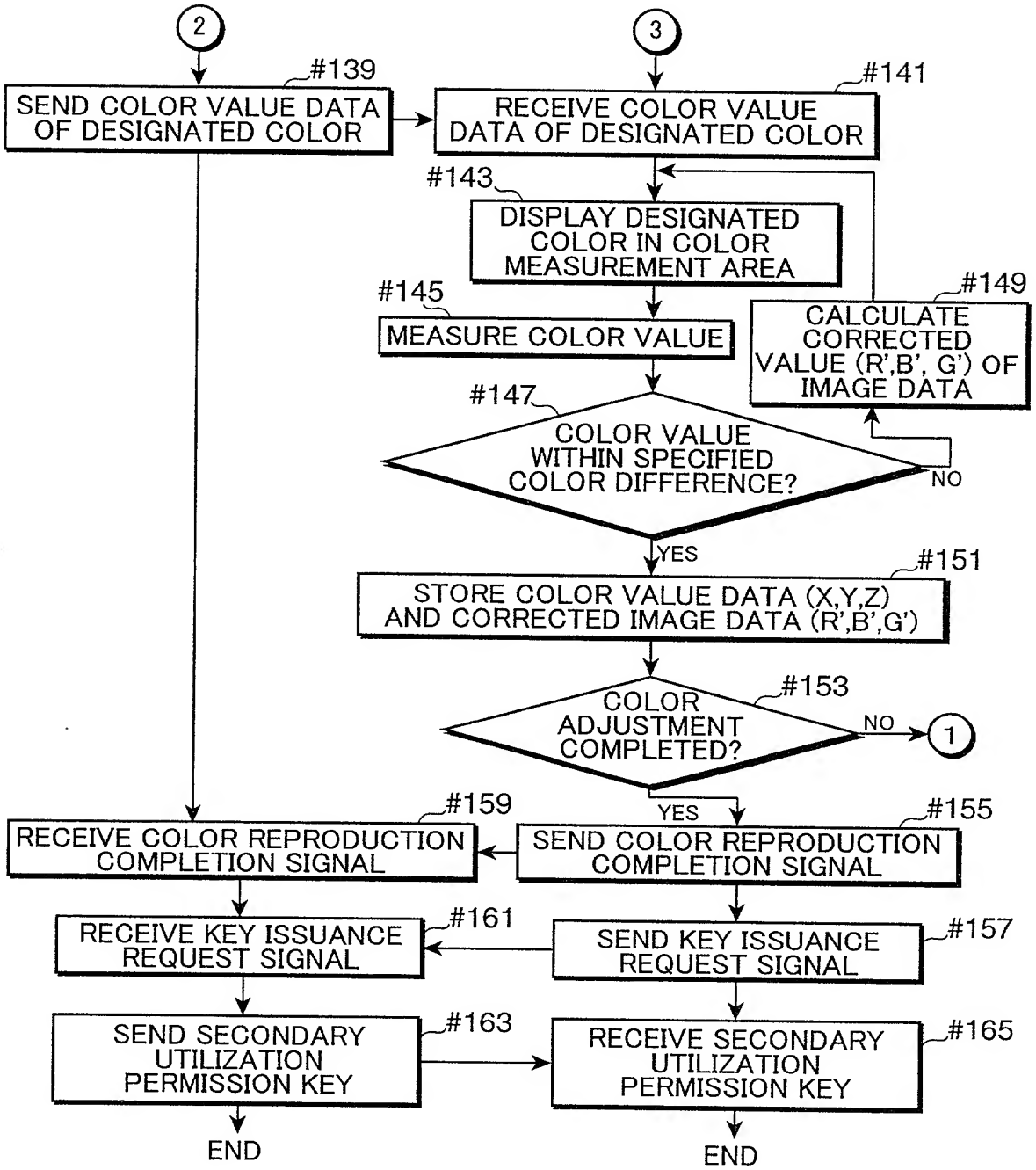

2
3
#139
SEND COLOR VALUE DATA OF DESIGNATED COLOR
#141
RECEIVE COLOR VALUE DATA OF DESIGNATED COLOR
#143
DISPLAY DESIGNATED COLOR IN COLOR MEASUREMENT AREA
#145
MEASURE COLOR VALUE
#149
CALCULATE CORRECTED VALUE (R',B', G') OF IMAGE DATA
#147
COLOR VALUE WITHIN SPECIFIED COLOR DIFFERENCE?
NO
YES
#151
STORE COLOR VALUE DATA (X,Y,Z) AND CORRECTED IMAGE DATA (R',B',G')
#153
COLOR ADJUSTMENT COMPLETED?
NO
1
YES
#159
RECEIVE COLOR REPRODUCTION COMPLETION SIGNAL
#155
SEND COLOR REPRODUCTION COMPLETION SIGNAL
#161
RECEIVE KEY ISSUANCE REQUEST SIGNAL
#157
SEND KEY ISSUANCE REQUEST SIGNAL
#163
SEND SECONDARY UTILIZATION PERMISSION KEY
#165
RECEIVE SECONDARY UTILIZATION PERMISSION KEY
END
END

FIG. 25A

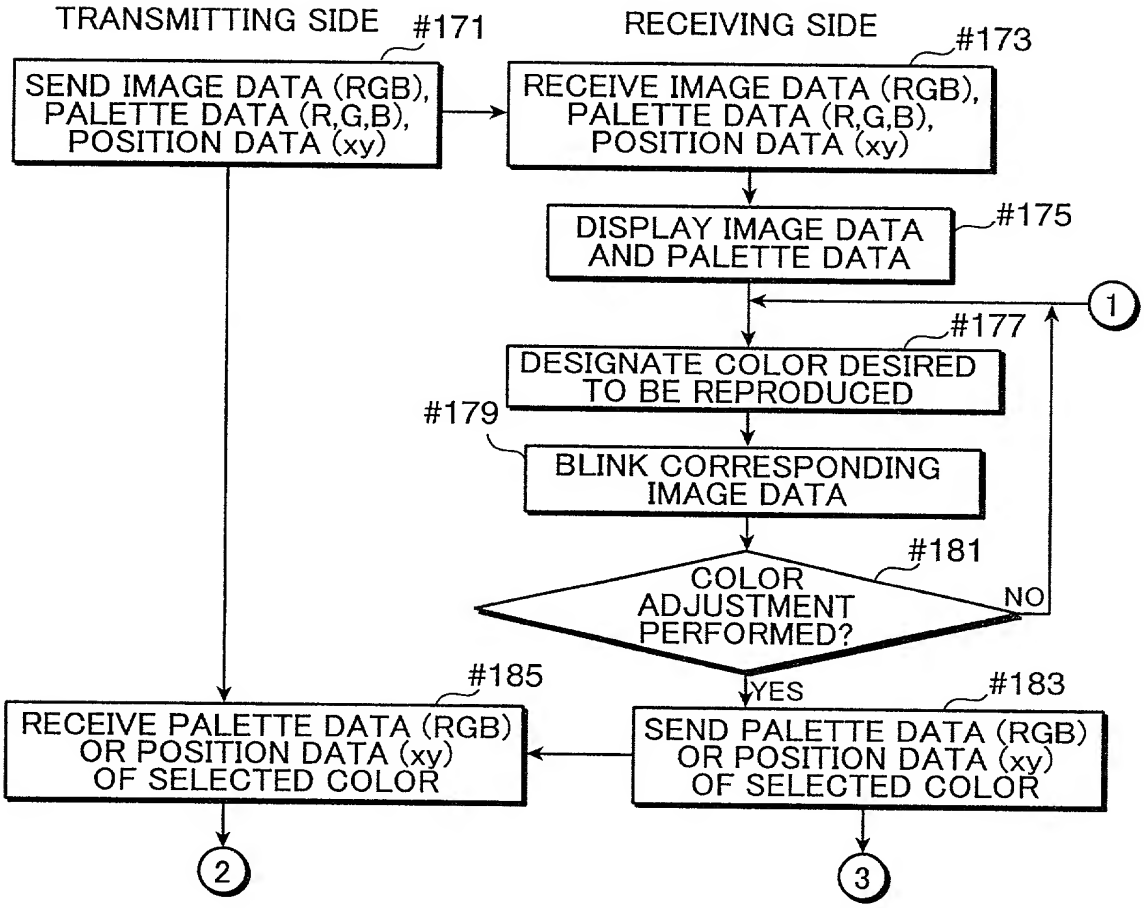
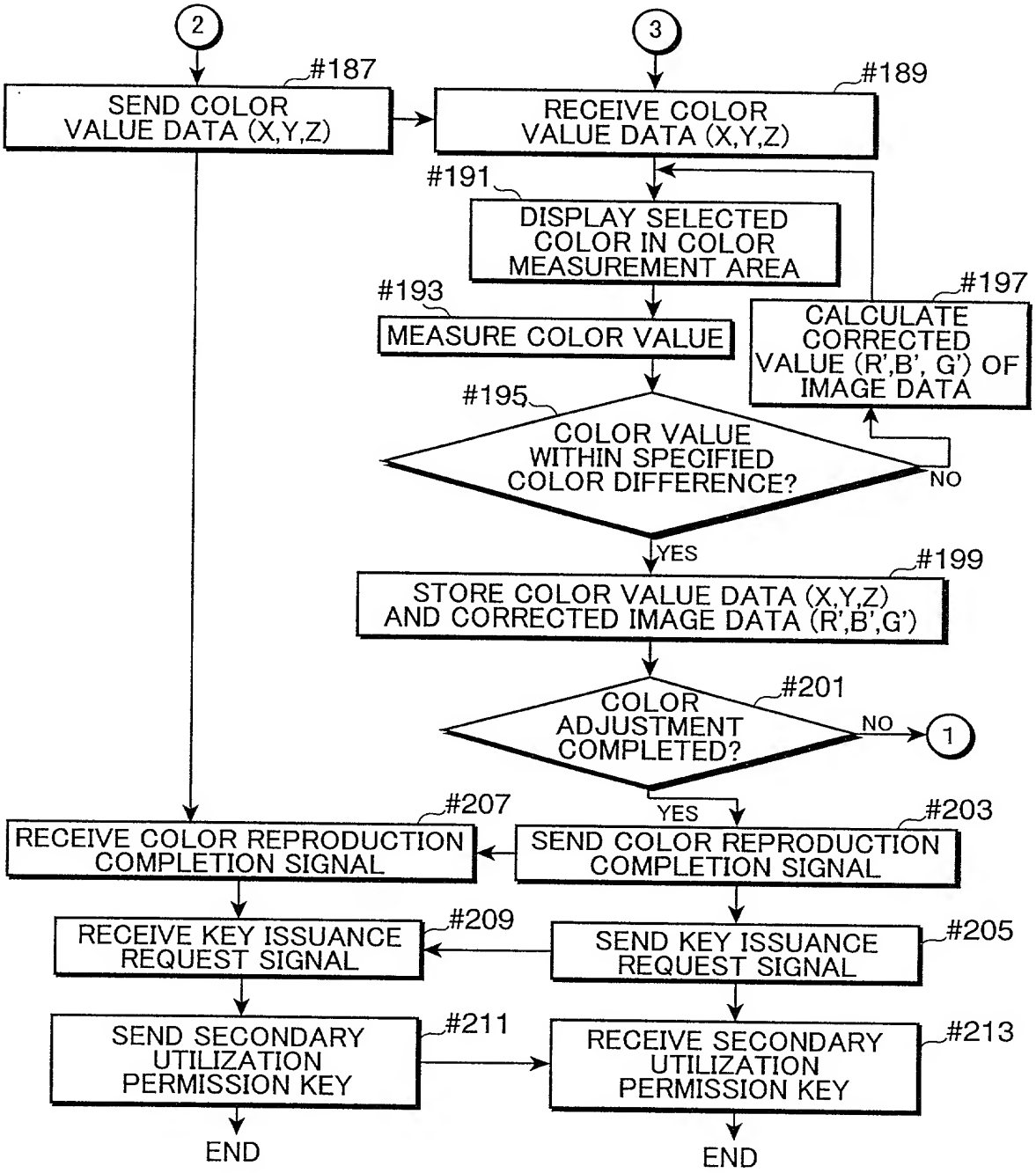

TRANSMITTING SIDE
RECEIVING SIDE
#171
SEND IMAGE DATA (RGB), PALETTE DATA (R,G,B), POSITION DATA (xy)
#173
RECEIVE IMAGE DATA (RGB), PALETTE DATA (R,G,B), POSITION DATA (xy)
#175
DISPLAY IMAGE DATA AND PALETTE DATA
1
#177
DESIGNATE COLOR DESIRED TO BE REPRODUCED
#179
BLINK CORRESPONDING IMAGE DATA
#181
COLOR ADJUSTMENT PERFORMED?
NO
YES
#183
SEND PALETTE DATA (RGB) OR POSITION DATA (xy) OF SELECTED COLOR
#185
RECEIVE PALETTE DATA (RGB) OR POSITION DATA (xy) OF SELECTED COLOR
2
3

FIG. 25B


2
3
#187
SEND COLOR VALUE DATA (X,Y,Z)
#189
RECEIVE COLOR VALUE DATA (X,Y,Z)
#191
DISPLAY SELECTED COLOR IN COLOR MEASUREMENT AREA
#193
MEASURE COLOR VALUE
#197
CALCULATE CORRECTED VALUE (R',B', G') OF IMAGE DATA
#195
COLOR VALUE WITHIN SPECIFIED COLOR DIFFERENCE?
NO
YES
#199
STORE COLOR VALUE DATA (X,Y,Z) AND CORRECTED IMAGE DATA (R',B',G')
#201
COLOR ADJUSTMENT COMPLETED?
NO
1
YES
#207
RECEIVE COLOR REPRODUCTION COMPLETION SIGNAL
#203
SEND COLOR REPRODUCTION COMPLETION SIGNAL
#209
RECEIVE KEY ISSUANCE REQUEST SIGNAL
#205
SEND KEY ISSUANCE REQUEST SIGNAL
#211
SEND SECONDARY UTILIZATION PERMISSION KEY
#213
RECEIVE SECONDARY UTILIZATION PERMISSION KEY
END
END